

SEQUENCE LISTING

<110> Aros Applied Biotechnology Aps

<120> Classification of Colon Cancer

<130> P949PC00

<160> 139

<170> PatentIn version 3.1

<210> 1

<211> 1237

<212> DNA

<213> NM_002985.2| Homo sapiens chemokine (C-C motif) ligand 5 (CCL5), mRNA

<400> 1
gctgcagagg attcctgcag aggatcaaga cagcacgtgg acctcgaca gcctctccca 60
caggtaccat gaaggtctcc gcggcagccc tcgctgtcat cctcattgct actgccctct 120
gcgctcctgc atctgcctcc ccatattcct cggacaccac accctgctgc tttgcctaca 180
ttgcccggcc actgccccgt gccacatca aggagtattt ctacaccagt ggcaagtgtc 240
ccaaccagc agtcgtcttt gtcacccgaa agaaccgcca agtgtgtgcc aaccagaga 300
agaaatgggt tcgggagtag atcaactctt tggagatgag ctaggatgga gagtccttga 360
acctgaactt acacaaattt gcctgtttct gcttgctctt gtcctagctt gggaggcttc 420
ccctcactat cctacccac ccgctccttg aagggccag attctaccac acagcagcag 480
ttacaaaaac cttcccagc ctggacgtgg tggctcacgc ctgtaatccc agcactttgg 540
gaggccaagg tgggtggatc acttgagggtc aggagtcca gaccagcctg gccaacatga 600
tgaaaccca tctctactaa aaatacaaaa aattagccgg gcgtggtagc gggcgctgt 660
agtcccagct actcgggagg ctgaggcagg agaatggcgt gaaccggga ggcggagctt 720
gcagtgagcc gagatcgcg cactgcactc cagcctgggc gacagagcga gactccgtct 780
caaaaaaaaa aaaaaaaaaa aaaatacaaa aattagccgg gcgtgggtggc ccacgcctgt 840
aatcccagct actcgggagg ctaaggcagg aaaattgttt gaaccagga ggtggaggct 900
gcagtgagct gagattgtgc cacttcactc cagcctgggt gacaaagtga gactccgtca 960

```

caacaacaac aacaaaaaagc ttccccaact aaagcctaga agagcttctg aggcgctgct 1020
ttgtcaaaag gaagtctcta ggttctgagc tctggctttg ccttggcttt gccagggctc 1080
tgtgaccagg aaggaagtca gcatgcctct agaggcaagg aggggaggaa cactgcactc 1140
ttaagcttcc gccgtctcaa cccctcacag gagcttactg gcaaacatga aaaatcggct 1200
taccattaaa gttctcaatg caaccataaa aaaaaaa 1237

```

<210> 2

<211> 2884

<212> DNA

<213> NM_004184.3| Homo sapiens tryptophanyl-tRNA synthetase (WARS), transcript variant 1, mRNA

```

<400> 2
tcgattctca agagggtttc attggtctca acctggcccc ccaggcaacc caccctgat 60
tggacagtct catcaagaag gttggtcaag agctcaagtg tttctgagaa tctgggtgat 120
ttataagaaa cccttagctg aatgcagggt ggggagaacg aaagacaaaa gcatcttttt 180
tcagaagggg aactgaaaga aagaggggaa gagtattaaa gaccatttct ggctgggcag 240
ggcactctca gcagctcaac tgcccagcgt gaccagtggc cacctctgca gtgtcttcca 300
caacctggtc ttgactcgtc tgctgaacaa atcctctgac ctcaggccgg ctgtgaacgt 360
agttcctgag agatagcaaa catgcccaac agtgagcccg catctctgct ggagctgttc 420
aacagcatcg ccacacaagg ggagctcgta aggtccctca aagcgggaaa tgcgtcaaa 480
gatgaaattg attctgcagt aaagatgttg gtgtcattaa aaatgagcta caaagctgcc 540
gcgggggagg attacaaggc tgactgtcct ccagggaacc cagcacctac cagtaatcat 600
ggcccagatg ccacagaagc tgaagaggat tttgtggacc catggacagt acagacaagc 660
agtgcaaaag gcatagacta cgataagctc attgttcggt ttggaagtag taaaattgac 720
aaagagctaa taaaccgaat agagagagcc accggccaaa gaccacacca cttcctgcgc 780
agaggcatct tcttctcaca cagagatatg aatcaggttc ttgatgccta tgaaaataag 840
aagccatttt atctgtacac gggccggggc ccctcttctg aagcaatgca tgtaggtcac 900
ctcattccat ttattttcac aaagtggctc caggatgtat ttaacgtgcc cttggtcac 960
cagatgacgg atgacgagaa gtatctgtgg aaggacctga ccctggacca ggcctatagc 1020
tatgctgtgg agaatgccaa ggacatcatc gcctgtggct ttgacatcaa caagactttc 1080
atattctctg acctggacta catggggatg agctcagggt tctacaaaaa tgtggtgaag 1140
attcaaaagc atgttacctt caaccaagtg aaaggcattt tcggcttcac tgacagcgac 1200
tgcatgggga agatcagttt tcctgccatc caggctgctc cctccttcag caactcattc 1260
ccacagatct tccgagacag gacggatatc cagtgcctta tcccatgtgc cattgaccag 1320

```

```

gatccttact ttagaatgac aagggacgtc gccccagga tcggctatcc taaaccagcc 1380
ctgctgcact ccaccttctt cccagccctg cagggcgccc agaccaaaat gagtgccagc 1440
gacccaact cctccatctt cctcaccga caggccaagc agatcaaaac caagggtcaat 1500
aagcatgcgt tttctggagg gagagacac atcgaggagc acaggcagtt tgggggcaac 1560
tgtgatgtgg acgtgtcttt catgtacctg accttcttcc tcgaggacga cgacaagctc 1620
gagcagatca ggaaggatta caccagcggg gccatgctca ccggtgagct caagaaggca 1680
ctcatagagg ttctgcagcc cttgatcgca gagcaccagg cccggcgcaa ggaggtcacg 1740
gatgagatag tgaaagagtt catgactccc cggaagctgt ctttcgactt tcagtagcac 1800
tcgtttttaca tatgcttata aaagaagtga tgtatcagta atgtatcaat aatcccagcc 1860
cagtcaaagc accgccacct gtaggcttct gtctcatggg aattactggg cctggcctct 1920
gtaagcctgt gtatgttatc aatactgttt ctctctgtga gttccattat ttctatctct 1980
tatgggcaaa gcattgtggg taattggtgc tggctaacat tgcattggtcg gatagagaag 2040
tccagctgtg agtctctccc caaagcagcc ccacagtggg gcctttggct ggaagtccat 2100
gggccaccct gttcttgtcc atggaggact ccgagggttc caagtatact cttagaccc 2160
actctgttta aaaatatata ttctatgta gcgtatatgg aattgaaatg tcattattgt 2220
aacctagaaa gtgctttgaa atattgatgt ggggaggttt attgagcaca agatgtattt 2280
cagcccatgc cccctcccaa aaagaaattg ataagtaaaa gcttcgttat acatttgact 2340
aagaaatcac ccagctttaa agctgctttt aacaatgaag attgaacaga gttcagcaat 2400
tttgattaaa ttaagacttg ggggtgaaa tttccagttt actgaactcc agaccatgca 2460
tgtagtccac tccagaaatc atgctcgctt cccttggcac accagtgttc tcctgccaaa 2520
tgaccctaga ccctctgtcc tgcagagtca ggggtggctt tcccctgact gtgtccgatg 2580
ccaaggagtc ctggcctccg cagatgcttc attttgacct ttggctgcag tggaagtcag 2640
cacagagcag tgccctggct gtgtccctgg acgggtggac ttagctaggg agaaagtcga 2700
ggcagcagcc ctcgaggccc tcacagatgt ctaggcaggc ctcatctcat cacgcagcat 2760
gtgcaggcct ggaagagcaa agccaaatc caggaagtc cttggttgat gtatctgggt 2820
ctcctctgga gcactctgcc ctctgtca ccagtagagt aaataaactt cttggctcc 2880
tgct 2884

```

<210> 3

<211> 1012

<212> DNA

<213> NM_006263.2| Homo sapiens proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (PSME1), transcript variant 1, mRNA

<400> 3

```

aggcggagct ggggtgcgagc gccctaccgc tttcgccttc ccttcgcggg gccactcca      60
ctccttgtgc ggcgctaggc ccccggtccc ggtcatggcc atgctcaggg tccagcccga      120
ggcccaagcc aaggtggatg tgtttcgtga agacctctgt accaagacag agaacctgct      180
ggggagctat ttccccaaga agatttctga gctggatgca tttttaaagg agccagctct      240
caatgaagcc aacttgagca atctgaaggc cccattggac atcccagtgct ctgatccagt      300
caaggagaaa gagaaagagg agcgggaagaa acagcaggag aaggaagaca aggatgaaaa      360
gaagaagggg gaggatgaag acaaagggtcc tccctgtggc ccagtgaact gcaatgaaaa      420
gatcgtggtc cttctgcagc gcttgaagcc tgagatcaag gatgtcattg agcagctcaa      480
cctggtcacc acctggttgc agctgcagat acctcgatt gaggatggta acaattttgg      540
agtggctgtc caggagaagg tgtttgagct gatgaccagc ctccacacca agctagaagg      600
cttccacact caaatctcta agtatttctc tgagcgtggg gatgcagtga ctaaagcagc      660
caagcagccc catgtgggtg attatcggca gctgggtgcac gagctggatg aggcagagta      720
ccgggacatc cggctgatgg tcatggagat ccgcaatgct tatgctgtgt tatatgacat      780
catcctgaag aacttcgaga agctcaagaa gcccagggga gaaacaaagg gaatgatcta      840
ttgagagccc tctctcccat tctgtgatga gtacagcaga gaccttcctg ctttttactg      900
gggactccag attttcccca aacttgcttc tgttgagatt tttccctcac cttgcctctc      960
aggcacaata aatatagtta taccactgcc catcaaaaaa aaaaaaaaaa aa      1012

```

<210> 4

<211> 983

<212> DNA

<213> NM_004335.2| Homo sapiens bone marrow stromal cell antigen 2 (BST2), mRNA

<400> 4

```

gtggaattca tggcatctac ttcgtatgac tattgcagag tgcccatgga agacggggat      60
aagcgctgta agcttctgct ggggatagga attctgggtgc tcctgatcat cgtgattctg      120
ggggtgccct tgattatctt caccatcaag gccaacagcg aggctgccg ggacggcctt      180
cgggcagtga tggagtgtcg caatgtcacc catctcctgc aacaagagct gaccgagggc      240
cagaagggct ttcaggatgt ggaggcccag gccgccacct gcaaccacac tgtgatggcc      300
ctaattggctt ccctggatgc agagaaggcc caaggacaaa agaaagtgga ggagcttgag      360
ggagagatca ctacattaaa ccataagctt caggacgcgt ctgcagaggt ggagcgactg      420
agaagagaaa accaggtctt aagcgtgaga atcgcggaaca agaagtacta cccagctcc      480
caggactcca gctccgctgc ggcgccccag ctgctgattg tgctgctggg cctcagcgct      540
ctgctgcagt gagatcccag gaagctggca catcttggaa ggtccgtcct gctcggcttt      600

```



```

tcgcttgaac attcccttga tctcatcagt tctgagcggg tcatggggca acacggttag    660
cggggagagc acggggtagc cggagaaggg cctctggagc aggtctggag gggccatggg    720
gcagtcctgg gtgtggggac acagtcgggt tgaccaggg ctgtctccct ccagagcctc    780
cctccggaca atgagtcccc cctcttgtct cccaccctga gattgggcat ggggtgcggt    840
gtggggggca tgtgctgcct gttgttatgg gtttttttg cggggggggg tgcttttttc    900
tggggtcttt gagctccaaa aaataaacac ttcctttgag ggagagcaaa aaaaaaaaaa    960
aaaaaaaaaa aaaaaaaaaa aaa                                           983

```

<210> 5

<211> 1260

<212> DNA

<213> NM_004223.3| Homo sapiens ubiquitin-conjugating enzyme E2L 6 (UBE2L6), transcript variant 1, mRNA

```

<400> 5
gggggtgggg tccccggggc ggggcggggc gcgctgtgtc gcgggtcgga gctcggtcct    60
gctggaggcc acgggtgcc aacactcggg cccgacatga tggcgagcat gcgagtgggtg    120
aaggagctgg aggatcttca gaagaagcct cccccatacc tgcggaacct gtccagcgat    180
gatgccaatg tcctgggtgtg gcacgtcttc ctctaccgg accaacctcc ctaccacctg    240
aaagccttca acctgcgcat cagcttcccg ccggagtatc cgttcaagcc tcccatgata    300
aaattcacia ccaagatcta ccacccaac gtggacgaga acggacagat ttgcctgccc    360
atcatcagca gtgagaactg gaagccttgc accaagactt gccaaagtcct ggaggccctc    420
aatgtgctgg tgaatagacc gaatatcagg gagccctg cggatggacct cgctgacctg    480
ctgacacaga atccggagct gttcagaaag aatgccgaag agttcaccct ccgattcgga    540
gtggaccggc cctcctaact catgttctga ccctctgtgc actggatcct cggcatagcg    600
gacggacaca cctcatggac tgaggccaga gcccctgtg gccattccc cattcatttt    660
tcccttctta gggtgttagt cattagtttg tgtgtgtgtg tgggtggaggg aaggagagcta    720
tgagtgtgtg tgttgtgtat ggactcactc ccagggtcac ctggccacag gtgcaccctt    780
cccacaccct ttacattccc cagagccaag ggagtttaag tttgcagtta caggccagtt    840
ctccagctct ccatcttaga gagacaggtc accttgagg cctgcttgca ggaaatgaat    900
ccagcagcca actcgaatcc ccctagggct caggcactga gggcctgggg acagtggagc    960
atatgggtgg gagacagatg gagggtagcc tatttacaac tgagtcagcc aagccactga   1020
tggaatata cagatttagg tgctaaaccg tttattttcc acggatgagt cacaatctga   1080
agaatcaaac ttccatcctg aaaatctata tgtttcaaaa ccacttgcca tcctgttaga   1140
ttgccagttc ctgggaccag gcctcagact gtgaagata taccctccag cattcagttc   1200

```

agggggagcc acggaaccca tgttcttgct taagccatta aagtcagaga tgaattctgg 1260

<210> 6

<211> 3799

<212> DNA

<213> NM_003488.2| Homo sapiens A kinase (PKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA

<400> 6
ctgtgttcca cccgcctggg ctagcacgtg ggggagctgc ggaagcgcg cgctgcgggc 60
cgggcccgcg ggcacagccg ggggccggcg gcggcgcgcg gactccgcat cccgcacccc 120
gatggtagcc gaggagctgg tgtaattact tcaagcctcc aggatggcaa tccagttccg 180
ttcgtcttcc cccttggcat tgcctgggat gctggcgctc ctcggctggg ggtgggttttt 240
ctctcgtaaa aaaggccatg tcagcagcca tgatgagcag cagggtggagg ctggtgctgt 300
gcagctgagg gctgaccctg ccatcaagga acctctcccc gtggaagacg tctgtcccaa 360
agtagtgtcc acacccccca gtgtcacaga gcctccagaa aaggaactgt ccaccgtgag 420
caagctgcct gcagagcccc cagcattgct ccagacacac ccaccttgcc gaagatcaga 480
gtcctcgggc attcttccta acaccacaga catgagattg cgaccaggaa cacgcagaga 540
tgacagtaca aagctggagc tagccctgac aggtggtgaa gccaaatcga ttcctctaga 600
gtgccccctt tcatcccaa aggggtgtact attctccagc aaatcagctg aggtgtgtaa 660
gcaagattcc cccttcagca ggggtgccaag gaagggtccag ccaggctacc ccgtagtccc 720
cgcagagaag cgtagctctg gggagagggc aagagagaca ggtggggccg aagggaactg 780
tgatgccgtg ttgggggaaa aggtgcttga agaagctctg ttgtctcggg agcatgtctt 840
ggaattggag aacagcaagg gccccagcct ggcctcttta gagggggaag aagataaggg 900
gaagagcagc tcatcccagg tgggtggggc agtgcaggag gaagagtatg tagcagagaa 960
gttgccaagt aggttcatcg agtcggctca cacagagctg gcaaaggacg atgcggcgcc 1020
agcacccccca gtcgcagacg ccaaagccca ggatagagggt gtcgagggag aactgggcaa 1080
tgaggagagc ttggatagaa atgaggaggg cttggataga aatgaggagg gcttggatag 1140
aaatgaggag agcttggata gaaatgagga gggcttggat agaaatgagg agattaagcg 1200
ggctgccttc cagataatct cccaagtgat ctcaagaagca accgaacagg tgctggccac 1260
cacggttggc aagggtgcag gtcgtgtgtg tcaggccagt cagctccaag ggcagaagga 1320
agagagctgt gtcccagttc accagaaaac tgtcttgggc ccagacactg cggagcctgc 1380
cacagcagag gcagctgttg ccccgccgga tgctggcctc cccttgccag gcctaccagc 1440
agaggggtca ccaccaccaa agacctacgt gagctgcctg aagagccttc tgtccagccc 1500
caccaaggac agtaagccaa atatctctgc acaccacatc tccctggcct cctgcctggc 1560

actgaccacc	cccagtgaag	agttgccgga	ccgggcaggc	atcctggtgg	aagatgccac	1620
ctgtgtcacc	tgcatgtcag	acagcagcca	aagtgtccct	ttggtggctt	ctccaggaca	1680
ctgctcagat	tctttcagca	cttcagggct	tgaagactct	tgcacagaga	ccagctcgag	1740
ccccagggac	aaggccatca	ccccgccact	gccagaaagt	actgtgccct	tcagcaatgg	1800
ggtgctgaag	ggggagttgt	cagacttggg	ggctgaggat	ggatggacca	tggatgcgga	1860
agcagatcat	tcaggagggtt	ctgacaggaa	cagcatggat	tccgtggata	gctgttgtag	1920
tctcaagaag	actgagagct	tccaaaatgc	ccaggcaggc	tccaacccta	agaaggtcga	1980
cctcatcatc	tgggagatcg	aggtgccaaa	gcacttagtc	ggtcggctaa	ttggcaagca	2040
ggggcgctat	gtgagttttc	tgaagcaaac	atctggtgcc	aagatctaca	tttcaaccct	2100
gccttacacc	cagagcgtcc	agatctgcca	catagaaggc	tctcaacatc	atgtagacaa	2160
agcgctgaac	ttgattggga	agaagttcaa	agagctgaac	ctcaccaata	tctacgtcc	2220
cccattgcct	tactggcac	tgctttctct	gccgatgaca	tcctggctca	tgctgcctga	2280
tggcatcacc	gtggaggtca	ttgtggtcaa	ccagggtcaat	gccgggcacc	tgctcgtgca	2340
gcagcacaca	caccctacct	tccacgcgct	gcgcagcctc	gaccagcaga	tgtacctctg	2400
ttactctcag	cctggaatcc	ccaccttgcc	caccccagtg	gaaataacgg	tcatctgtgc	2460
cgccccctggt	gcggacgggg	cctggtggcg	agcccaagtg	gttgccctct	acgaggagac	2520
caacgaagtg	gagattcgat	acgtggacta	cggcggatat	aagaggggtga	aagtagacgt	2580
gctccggcaa	atcagggtctg	actttgtcac	cctgccgttt	cagggagcag	aagtccttct	2640
ggacagtgtg	atgcccctgt	cagacgatga	ccagttttca	ccggaagcag	atgccgccat	2700
gagcgagatg	acggggaata	cagcactgct	tgctcagggtg	acaagttaca	gtccaactgg	2760
tcttcctctg	attcagctgt	ggagtgtggt	tggagatgaa	gtggtgttga	taaaccggtc	2820
cctggtggag	cgaggccttg	cccagtgggt	agacagctac	tacacaagcc	tttgaccccc	2880
atgctgcttc	ctgagagtct	ttttttgcac	tggtgaaatt	gggcttggca	ctcaagtcaa	2940
agatgaacat	cgggaataaca	aacattgtcc	tctccagaaa	gtcctttctt	tatccatact	3000
gtagtcctat	tgagaagaca	tttcgtctct	gagaaaaaag	gatggaacta	tgggttctct	3060
tcgcaaagcc	aaaggatagt	gtttaacaag	ccagctggct	tatcctgggt	ctcagctggt	3120
taaaaaaaaa	aaaaaaaaagg	aatagaaaca	gtttcaacca	gattgtccta	ttccccctgt	3180
tccattcccc	tcttcttctt	tctatctcct	tccccggcaa	aaaccaaaca	aactggcaga	3240
caggccaggg	atgtatgttg	cttgcttgag	agggtttctt	ttacttcaaa	atctttcttc	3300
agggagcaag	acatgaactg	actaattggt	atccactact	tgtacagctt	acataaatga	3360
gttgatgata	tttaaccagt	ttttataaac	ttcatttagg	tctctaaaca	cagacttttt	3420
aaattgcaac	tgtaaatatg	aaatggtcat	cacatctgac	cttggtcagt	ggggagggga	3480
actggtatcc	tgccaagcct	ggttgtaatt	tgtaacattt	ttctatttgt	gcaaactctg	3540
taaatatgtg	tttaaacaaa	tgtaatattt	tgtacaagat	acactggaga	acaaagggaa	3600

ctcaagattc ttccagccac atgtcacctg taggtagaag taaactctgc agtgcagctt 3660
 ctgctcttgg cccctctggc cagggcccct gtggcttcct gcacactgga caggtgactg 3720
 tatggtagag actgtgatct gggaactttt tgctgtacaa atctgtttaa aaaaaaaaaa 3780
 aagtaactca ttgaattaa 3799

<210> 7

<211> 829

<212> DNA

<213> NM_002818.2| Homo sapiens proteasome (prosome, macropain) activator subunit 2 (PA28 beta) (PSME2), mRNA

<400> 7
 tggggagtga aagcgaaagc ccgggcgact agccgggaga ccagagatct agcgactgaa 60
 gcagcatggc caagccgtgt ggggtgcgcc tgagcgggga agcccgcaaa caggtggagg 120
 tcttcagaca gaatcttttc caggaggctg aggaattcct ctacagattc ttgccacaga 180
 aaatcatata cctgaatcag ctcttgcaag aggactccct caatgtggct gacttgactt 240
 ccctccgggc cccactggac atccccatcc cagaccctcc acccaaggat gatgagatgg 300
 aaacagataa gcaggagaag aaagaagtcc ataagtgtgg atttctccct gggaatgaga 360
 aagtcctgtc cctgcttgcc ctgggttaagc cagaagtctg gactctcaa gagaaatgca 420
 ttctggtgat tacatggatc caacacctga tccccagat tgaagatgga aatgattttg 480
 gggtagcaat ccaggagaag gtgctggaga gggatgaatgc cgtcaagacc aaagtggaag 540
 ctttcagac aaccatttcc aagtacttct cagaacgtgg ggatgctgtg gccaaggcct 600
 ccaaggagac tcatgtaatg gattaccggg ccttggtgca tgagcgagat gaggcagcct 660
 atggggagct cagggccatg gtgctggacc tgagggcctt ctatgctgag ctttatcata 720
 tcatcagcag caacctggag aaaattgtca acccaaaggg tgaagaaaag ccatctatgt 780
 actgaacccg ggactagaag gaaaataaat gatctatatg ttgtgtgga 829

<210> 8

<211> 2974

<212> DNA

<213> NM_004363.1 Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5), mRNA

<400> 8
 ctcagggcag agggaggaag gacagcagac cagacagtca cagcagcctt gacaaaacgt 60
 tcctggaact caagctcttc tccacagagg aggacagagc agacagcaga gaccatggag 120

tctccctcgg	ccccctccca	cagatggtgc	atcccctggc	agaggctcct	gctcacagcc	180
tcacttctaa	ccttctggaa	cccgcccacc	actgccaagc	tcactattga	atccacgccg	240
ttcaatgtcg	cagaggggaa	ggaggtgctt	ctacttgtcc	acaatctgcc	ccagcatctt	300
tttggttaca	gctggtacaa	aggtgaaaga	gtggatggca	accgtcaa	tataggatat	360
gtaataggaa	ctcaacaagc	taccccaggg	ccgcataca	gtggtcgaga	gataatatac	420
cccaatgcat	ccctgctgat	ccagaacatc	atccagaatg	acacaggatt	ctacacccta	480
cacgtcataa	agtcagatct	tgtgaatgaa	gaagcaactg	gccagttccg	ggtatacccg	540
gagctgcca	agccctccat	ctccagcaac	aactccaaac	ccgtggagga	caaggatgct	600
gtggccttca	cctgtgaacc	tgagactcag	gacgcaacct	acctgtgggtg	ggtaaacaat	660
cagagcctcc	cggtcagtcc	caggctgcag	ctgtccaatg	gcaacaggac	cctcactcta	720
ttcaatgtca	caagaaatga	cacagcaagc	tacaaatgtg	aaaccagaa	cccagtgagt	780
gccaggcgca	gtgattcagt	catcctgaat	gtcctctatg	gcccggatgc	ccccaccatt	840
tcccctctaa	acacatctta	cagatcaggg	gaaaatctga	acctctcctg	ccacgcagcc	900
tctaaccac	ctgcacagta	ctcttggttt	gtcaatggga	ctttccagca	atccacccaa	960
gagctcttta	tccccaacat	cactgtgaat	aatagtggat	cctatacgtg	ccaagcccat	1020
aactcagaca	ctggcctcaa	taggaccaca	gtcacgacga	tcacagtcta	tgcagagcca	1080
cccaaaccct	tcatcaccag	caacaactcc	aaccccgtagg	aggatgagga	tgctgtagcc	1140
ttaacctgtg	aacctgagat	tcagaacaca	acctacctgt	ggtgggtaaa	taatcagagc	1200
ctcccgttca	gtcccaggct	gcagctgtcc	aatgacaaca	ggaccctcac	tctactcagt	1260
gtcacaagga	atgatgtagg	accctatgag	tgtggaatcc	agaacgaatt	aagtgttgac	1320
cacagcgacc	cagtcacctt	gaatgtcctc	tatggcccag	acgacccac	catttcccc	1380
tcatacacct	attaccgtcc	aggggtgaac	ctcagcctct	cctgccatgc	agcctctaac	1440
ccacctgcac	agtattcttg	gctgattgat	gggaacatcc	agcaacacac	acaagagctc	1500
tttatctcca	acatcactga	gaagaacagc	ggactctata	cctgccaggc	caataactca	1560
gccagtggcc	acagcaggac	tacagtcaag	acaatcacag	tctctgcgga	gctgccaag	1620
ccctccatct	ccagcaacaa	ctccaaaccc	gtggaggaca	aggatgctgt	ggccttcacc	1680
tgtgaacctg	aggctcagaa	cacaacctac	ctgtgggtggg	taaatgggtca	gagcctccca	1740
gtcagtccca	ggctgcagct	gtccaatggc	aacaggaccc	tcactctatt	caatgtcaca	1800
agaaatgacg	caagagccta	tgtatgtgga	atccagaact	cagtgcagtc	aaaccgcagt	1860
gaccagtc	ccctggatgt	cctctatggg	ccggacaccc	ccatcatttc	ccccccagac	1920
tcgtcttacc	tttcgggagc	gaacctcaac	ctctcctgcc	actcggcctc	taacccatcc	1980
ccgcagtatt	cttggcgtat	caatgggata	ccgcagcaac	acacacaagt	tctctttatc	2040
gccaaaatca	cgccaaataa	taacgggacc	tatgcctgtt	ttgtctctaa	cttggctact	2100
ggccgcaata	attccatagt	caagagcatc	acagtctctg	catctggaac	ttctcctggt	2160

```

ctctcagctg gggccactgt cggcatcatg attggagtgc tggttggggt tgctctgata 2220
tagcagccct ggtgtagttt cttcatttca ggaagactga cagttgtttt gcttcttcct 2280
taaagcattt gcaacagcta cagtctaaaa ttgcttcttt accaaggata tttacagaaa 2340
agactctgac cagagatcga gaccatccta gccaacatcg tgaaacccca tctctactaa 2400
aaatacaaaa atgagctggg cttggtggcg cgcacctgta gtcccagtta ctcgaggaggc 2460
tgaggcagga gaatcgcttg aaccgaggag gtggagattg cagtgcagcc agatcgacc 2520
actgcactcc agtctggcaa cagagcaaga ctccatctca aaaagaaaag aaaagaagac 2580
tctgacctgt actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa 2640
aactttaatg aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa 2700
taattaattt catgggacta aatgaactaa tgaggattgc tgattcttta aatgtcttgt 2760
ttcccagatt tcaggaaaact ttttttcttt taagctatcc actcttacag caatttgata 2820
aaatatactt ttgtgaacaa aaattgagac atttacattt tctccctatg tggtcgctcc 2880
agacttgga aactattcat gaatatttat attgtatggt aatatagtta ttgcacaagt 2940
tcaataaaaa tctgctcttt gtataacaga aaaa 2974

```

<210> 9

<211> 5028

<212> DNA

<213> NM_005766.2| Homo sapiens FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived) (FARP1), transcript variant 1, mRNA

```

<400> 9
gcggccgctg cccgctttgc gccgctctc cctgcgcgag tagcgtggc cccggcgctg 60
aggcggccat ggcgaccgag agcccgctcc ccacccaccc cgctgctcc gccctcccct 120
ccgccccgcg ccacctttga tggctcggac ctgagccggc caccgccagc cctgctcgcg 180
cgcccgcgcc gccgcccggc gcgggtatta atagccggcg ccgcccgcgc ctcggccgcc 240
gggggcttgg gagccgccga tcccggagcc cgagccggga gagggagccg ccgcagccgc 300
cggcgctgtg gagatattct ctaagccgct ttcacatgag gagaaataga gcagaggccg 360
acccagagat cacgactggg ggccccggaa aattcgggga tcagtacctt ggaacgtgga 420
cagaagccgc cccaacacc ttcaggaaaa ctgctgtcca tcaaaatcca gatgctggat 480
gacacccagg aggcatttga agttccacaa agagctcctg ggaagggtgct gctggatgca 540
gtttgcaacc acctcaacct cgtggaagggt gactattttg gcctcgagtt tcctgatcac 600
aaaaagatca cgggtgtggc ggatctccta aaacccattg tgaaacagat tagaaggcca 660
aagcacgttg ttgttaagtt tgtggtgaaa ttctttccgc ctgaccacac acaactccaa 720
gaagaactca caaggtagct gttcgcgctg cagggtgaagc aggacttggc tcaaggcagg 780

```

ttgacgtgta atgacaccag cgcagctctc ttgatttcac acattgtgca atctgagatt	840
ggggatttttg atgaagcctt ggacagagag cacttagcaa aaaataaata catacctcag	900
caagacgcac tagaggacaa aatcgtggaa ttccaccata accacattgg acaaacacca	960
gcagaatcag atttccagct cctagagatt gcccgtcggc tagagatgta tggaatccgg	1020
ttgcacccgg ccaaggacag ggaaggcacg aagatcaatc tggccgttgc caacacggga	1080
attctagtgt ttcagggttt cactaagatc aatgccttca actgggcaa ggtgcggaag	1140
ctgagcttca agaggaagcg ctttctcatc aagctccggc cagatgcaa tagtgcgtag	1200
caggatacct tggaattcct gatggccagt cgggatttct gcaagtcctt ctggaaaatc	1260
tgtgttgaac atcatgcctt ctttagactt tttgaagagc ccaaaccaaa gcccaagccc	1320
gtcctcttta gccgggggtc atcatttcgg ttcagtggc ggactcagaa gcaggttctc	1380
gactatgtta aagaaggagg acataagaag gtgcagtttg aaaggaagca cagcaagatt	1440
cattctatcc ggagccttgc ttcacagcct acagaactga attcgggaagt gctggagcag	1500
tctcagcaga gcaccagcct tacatttgga gaaggtgccg aatctccagg gggccagagc	1560
tgccggcgag gaaaggaacc gaaggtttcc gccggggagc cggggtcgca cccgagccct	1620
gcgccgagga gaagccccgc gggtacaag caggcggacg gagccgcctc ggcgccacg	1680
gaggaagagg aggaggtcgt taaggatagg acccagcaga gtaaacctca gccccgcag	1740
ccaagcacag gctccctgac tggcagtcct cacctttccg agctgtctgt gaactcgcag	1800
gggggagtg cccctgcaa cgtgaccttg tctccaacc tgagccccga caccaagcag	1860
gcctctccct tgatcagccc gctgctgaat gaccaggcct gccccggac ggacgatgag	1920
gatgagggcc ggaggaagag attcccaact gataaagcgt acttcatagc taagggaagt	1980
tctaccaccg agcgaacata tctgaaggat ctcgaagtta tcaattcgtg gtttcagagc	2040
acagtgaagca aagaggacgc catgccggaa gcaactgaaa gtctcatatt cccgaatttt	2100
gaacctttgc acaaatttca tactaatttt ctcaaggaaa ttgagcaacg acttgccctg	2160
tgggaaggcc gctcaaatgc ccaaatcaga gattacaaa gaatcggcga tgtcatgctg	2220
aagaacattc agggcatgaa gcacctggcg gctcacctgt ggaagcacag cgaggccttg	2280
gaggcccttg agaatggaat caagagctcc cggcggctgg agaacttctg cagagacttt	2340
gagctgcaga aggtgtgtta cctaccgctc aacaccttcc tcctgcggcc actgcaccgg	2400
ctcatgcact acaagcaggt cctggagcgg ctgtgcaaac accaccgcc gagccacgcc	2460
gacttcaggg actgccgagc cgctttggca gagatcacgg agatgggtggc acagctccac	2520
ggtacgatga tcaagatgga gaatttccag aagctgcacg aactcaagaa agatttgatt	2580
ggcattgaca atcttgtggt tccgggaagg gagttcatcc gtctgggcag cctcagcaag	2640
ctctcgggga aggggctcca gcagcgcag ttcttcctgt tcaacgacgt cctgctatac	2700
acgagccggg ggctgacggc ctccaatcag tttaaagtcc acgggcagct cccgctctat	2760

ggcatgacga	ttgaggagag	cgaagacgag	tggggggtgc	cccactgcct	gaccctccgg	2820
ggccagcggc	agtccatcat	cgtggccgcc	agttctcggg	ccgagatgga	gaagtggggt	2880
gaggacatcc	agatggccat	tgacctggcg	gagaagagca	gcagccccgc	ccctgagttc	2940
ctggccagca	gccccctga	caacaagtcc	cctgatgaag	ccaccgcggc	tgaccaggag	3000
tcagaggatg	acctgagcgc	ctcgcgcaca	tcgctggagc	gccaggcccc	gcaccgcggc	3060
aacacaatgg	tgacacgtgt	ctggcaccgc	aacaccagcg	tctccatggg	ggacttcagc	3120
atcgcagtg	agaatcagtt	gtctggaaac	ctgctgagga	aattcaaaaa	cagcaacggg	3180
tggcagaagc	tgtgggtggg	gttcacaaac	ttctgcctgt	tcttctacaa	atcacaccag	3240
gacaatcatc	cccttgccag	cctgcctctg	ctcggctact	cgctcaccat	cccctctgag	3300
tccgagaaca	tccagaaaga	ctacgtgttc	aagctgcact	tcaagtccca	cgtctactac	3360
ttcagggcgg	aaagcgagta	cacgttcgaa	aggtggatgg	aagtgatccg	cagtgccacc	3420
agctctgcct	cgcgacccca	cgtgttgagt	cacaaagagt	ctcttggtga	ttgatggccg	3480
gacacactcg	tttccgcagt	ggctgctttc	ctggaagacg	tttcctttct	tctgtattaa	3540
tgaagcctgg	taaaattaac	acctgtctga	aaatcaaaaa	catggcttcc	cagcagctct	3600
cctgtctcca	cagccgcgtt	ttttaacccc	gacctctcag	cgctcgaatg	aacagcgctc	3660
ccacctccag	tcctggcatc	cgctgggggc	gctgttcttt	agctagtgcc	agtattaaaa	3720
cattgtcatt	acgagagtgc	caaatgacat	cttccctcca	ccctgcccct	gaaaaacagt	3780
acacacacat	ccgttcaaca	caagacaggg	caagtgtttt	tcttcctaaa	aaaagttctt	3840
tcttttatta	ttttcaccta	ttggctgctg	cattttacga	agtggacttc	ccggtgtttg	3900
tttgtttggt	tgcaatacac	tcagtgcagc	cttaagcaaa	tgagatcatt	ttcagatttc	3960
atTTTTTTTT	tcagtctttc	tacttttgta	ataataggaa	gtagtagga	ctcacttctc	4020
tgattaataa	gcaatttgca	gcacacagcg	ttccactgcg	gggtttcacg	ctcacctgaa	4080
aacacctgtt	cccaacctac	ttcttggtgc	aagttgacca	aatcgtttta	agtggtaact	4140
ctttccaacc	gtagcagggg	tgttttctgt	taagcaaagc	cgagatccag	tgcaatacct	4200
ggactgtcac	cgctctgtga	gtggtgtaca	caatgggaag	ataataagcc	gtggtgtttt	4260
gctgtctgtc	tgtgtcacia	gcatgaaaac	ccgtgtgtca	ttgatcagca	ccatttgtgg	4320
tatgttccgt	gatgagcggt	tagtgagcct	gctggctgca	gagcactatg	aaatcatggg	4380
acgtagtccc	cggcacctgt	cgttattcct	atatcctcct	gcaactgtgg	tttgaaactg	4440
cgcattctct	agtagtatat	atcgctgcctg	tcttcaaaaa	catttccctt	tttatactca	4500
ttccccccag	gcatggggta	gtgtcagtcg	gactgcacag	ggaacacggg	ttccagtggc	4560
tttgggcccct	actcgggaaa	cgtctgcctg	ttctcgatgg	tgatgggggtg	gctgccattc	4620
ccttggtttt	cctaagccct	ttctaacgag	agtctcaaac	aagcggaggc	gagggccaat	4680
tcaaccccat	tctttccagc	gccccgcacc	atagcacctg	cccacctgag	aaccaggaac	4740
gcaccctctc	tgtggagctc	tgactgggtgt	agctggaaac	aaacagcaac	ttgcaaacgg	4800

acgaagagcc	tgccgtgtgt	taatcatttg	ccttacaaga	tgtaccagac	ggttttccagt	4860
actaacaag	ggaataaaaa	tacctcacgc	cacaatccag	catattgatg	ttttaaggca	4920
aaacaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	4980
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaa		5028

<210> 10

<211> 7787

<212> DNA

<213> NM_012334.1| Homo sapiens myosin X (MYO10), mRNA

<400> 10						
gagacaaagg	ctgccgtcgg	gacgggag	ttagggactt	gggtttgggc	gaacaaaagg	60
tgagaaggac	aagaaggac	cgggcgatgg	cagcagggga	gccccgcggg	cgcgcgctct	120
cgggagtggc	gccgtgacac	gcatggtttc	cccggacccg	cggcggcgct	gacttccgcg	180
agtcggagcg	gcactcggcg	agtccgggac	tgcgctggaa	caatggataa	cttcttcacc	240
gagggaaacac	gggtctggct	gagagaaaat	ggccagcatt	ttccaagtac	tgtaaattcc	300
tgtgcagaag	gcctcgtcgt	cttccggaca	gactatggtc	aggtattcac	ttacaagcag	360
agcacaatta	cccaccagaa	ggtgactgct	atgcaccca	cgaacgagga	gggcgtggat	420
gacatggcgt	ccttgacaga	gctccatggc	ggctccatca	tgtataactt	attccagcgg	480
tataagagaa	atcaaata	tacctacatc	ggctccatcc	tggcctccgt	gaacccttac	540
cagcccatcg	ccgggctgta	cgagcctgcc	accatggagc	agtacagccg	gcgccacctg	600
ggcgagctgc	ccccgcacat	cttcgccatc	gccaacgagt	gctaccgctg	cctgtggaag	660
cgctacgaca	accagtgcct	cctcatcagt	ggtgaaagtg	gggcaggtaa	aaccgaaagc	720
actaaattga	tcctcaagtt	tctgtcagtc	atcagtcaac	agtctttgga	attgtcctta	780
aaggagaaga	catcctgtgt	tgaacgagct	attcttgaaa	gcagcccat	catggaagct	840
ttcggcaatg	cgaagaccgt	gtacaacaac	aactctagtc	gctttgggaa	gtttgttcag	900
ctgaacatct	gtcagaaagg	aaatattcag	ggcgggagaa	ttgtagatta	tttattagaa	960
aaaaaccgag	tagtaaggca	aaatcccggg	gaaaggaatt	atcacatatt	ttatgcactg	1020
ctggcagggc	tggaacatga	agaaagagaa	gaattttatt	tatctacgcc	agaaaactac	1080
cactacttga	atcagtctgg	atgtgtagaa	gacaagacaa	tcagtgacca	ggaatccttt	1140
aggggaagtta	ttacggcaat	ggacgtgatg	cagttcagca	aggaggaagt	tcgggaagtg	1200
tcgaggctgc	ttgctggtat	actgcattct	gggaacatag	aatttatcac	tgctggtggg	1260
gcacagggtt	ccttcaaac	agctttgggc	agatctgcgg	agttacttgg	gctggaccca	1320
acacagctca	cagatgcttt	gaccagaga	tcaatgttcc	tcaggggaga	agagatcctc	1380

acgcctctca	atgttcaaca	ggcagtagac	agcagggact	ccctggccat	ggctctgtat	1440
gcgtgctgct	ttgagtgggt	aatcaagaag	atcaacagca	ggatcaaagg	caatgaggac	1500
ttcaagtcta	ttggcatcct	cgacatcttt	ggatttgaaa	actttgaggt	taatcacttt	1560
gaacagttca	atataaacta	tgcaaacgag	aaacttcagg	agtacttcaa	caagcatatt	1620
ttttcttttag	aacaactaga	atatagccgg	gaaggattag	tgtgggaaga	tattgactgg	1680
atagacaatg	gagaatgcct	ggacttgatt	gagaagaaac	ttggcctcct	agcccttatc	1740
aatgaagaaa	gccattttcc	tcaagccaca	gacagcacct	tattggagaa	gctacacagt	1800
cagcatgcga	ataaccactt	ttatgtgaag	cccagagttg	cagttaacaa	ttttggagtg	1860
aagcactatg	ctggagaggt	gcaatatgat	gtccgaggta	tcttgagaa	gaacagagat	1920
acatttcgag	atgaccttct	caatttgcta	agagaaagcc	gatttgactt	tatctacgat	1980
ctttttgaac	atgtttcaag	ccgcaacaac	caggatacct	tgaaatgtgg	aagcaaacat	2040
cggcggccta	cagtcagctc	acagttcaag	gactcactgc	attccttaat	ggcaacgcta	2100
agctcctcta	atcctttctt	tgttcgctgt	atcaagccaa	acatgcagaa	gatgccagac	2160
cagtttgacc	aggcggttgt	gctgaaccag	ctgcggtact	cagggatgct	ggagactgtg	2220
agaatccgca	aagctgggta	tgcggtccga	agaccctttc	aggactttta	caaaagggtat	2280
aaagtgtga	tgaggaatct	ggctctgcct	gaggacgtcc	gagggaagtg	cacgagcctg	2340
ctgcagctct	atgatgcctc	caacagcgag	tggcagctgg	ggaagaccaa	ggtctttctt	2400
cgagaatcct	tggaacagaa	actggagaag	cggaggggaag	aggaagtga	ccacgcggcc	2460
atggtgattc	gggcccattg	cttgggcttc	ttagcacgaa	aacaatacag	aaaggtcctt	2520
tattgtgtgg	tgataataca	gaagaattac	agagcattcc	ttctgaggag	gagatttttg	2580
cacctgaaaa	aggcagccat	agttttccag	aagcaactca	gaggtcagat	tgctcggaga	2640
gtttacagac	aattgctggc	agagaaaagg	gagcaagaag	aaaagaagaa	acaggaagag	2700
gaagaaaaga	agaaacggga	ggaagaagaa	agagaaagag	agagagagcg	aagagaagcc	2760
gagctccgcg	cccagcagga	agaagaaacg	aggaagcagc	aagaactcga	agccttgtag	2820
aagagccaga	aggaagctga	actgaccctg	gaactggaga	aacagaagga	aaataagcag	2880
gtggaagaga	tcctccgtct	ggagaaagaa	atcgaggacc	tgtagcgcat	gaaggagcag	2940
caggagctgt	cgctgaccga	ggcttccctg	cagaagctgc	aggagcggcg	ggaccaggag	3000
ctccgcaggc	tggaggagga	agcgtgcagg	gcggcccagg	agttcctcga	gtccctcaat	3060
ttcgacgaga	tcgacgagtg	tgtccggaat	atcgagcggg	ccctgtcggg	gggaagcgaa	3120
ttttccagcg	agctggctga	gagcgcagtc	gaggagaagc	ccaacttcaa	cttcagccag	3180
ccctacccag	aggaggaggt	cgatgagggc	ttcgaagccg	acgacgacgc	cttcaaggac	3240
tccccaacc	ccagcgagca	cggccactca	gaccagcgaa	caagtggcat	ccggaccagc	3300
gatgactctt	cagaggagga	cccatacatg	aacgacacgg	tggtgcccac	cagccccagt	3360
gcggacagca	cggtgctgct	cgccccatca	gtgcaggact	ccgggagcct	acacaactcc	3420

tccagcggcg	agtccaccta	ctgcatgccc	cagaacgctg	gggacttgcc	ctccccagac	3480
ggcgactacg	actacgacca	ggatgactat	gaggacggtg	ccatcacttc	cggcagcagc	3540
gtgaccttct	ccaactccta	cggcagccag	tgggtccccg	actaccgctg	ctctgtgggg	3600
acctacaaca	gctcgggtgc	ctaccggttc	agctctgagg	gggcgcagtc	ctcgtttgaa	3660
gatagtgaag	aggactttga	ttccagggtt	gatacagatg	atgagctttc	ataccggcgt	3720
gactctgtgt	acagctgtgt	cactctgccc	tatttccaca	gctttctgta	catgaaaggt	3780
ggcctgatga	actcttgga	acgccgctgg	tgcgtcctca	aggatgaaac	cttcttggtg	3840
ttccgctcca	agcaggaggc	cctcaagcaa	ggctggctcc	acaaaaaagg	ggggggctcc	3900
tccacgctgt	ccaggagaaa	ttggaagaag	cgctggtttg	tcctccgcca	gtccaagctg	3960
atgtactttg	aaaacgacag	cgaggagaag	ctcaagggca	ccgtagaagt	gcgaacggca	4020
aaagagatca	tagataacac	caccaaggag	aatgggatcg	acatcattat	ggccgatagg	4080
actttccacc	tgattgcaga	gtccccagaa	gatgccagcc	agtgggttcag	cgtgctgagt	4140
caggtccacg	cgtccacgga	ccaggagatc	caggagatgc	atgatgagca	ggcaaaccga	4200
cagaatgctg	tgggcacctt	ggatgtgggg	ctgattgatt	ctgtgtgtgc	ctctgacagc	4260
cctgatagac	ccaactcgtt	tgtgatcatc	acggccaacc	gggtgctgca	ctgcaacgcc	4320
gacacgccgg	aggagatgca	ccactggata	accctgctgc	agagggtcaa	aggggacacc	4380
agagtggagg	gccaggaatt	catcgtgaga	ggatggttgc	acaaagaggt	gaagaacagt	4440
ccgaagatgt	cttactgaa	actgaagaaa	cggtggtttg	tactcaccca	caattccctg	4500
gattactaca	agagttcaga	gaagaacgcg	ctcaaactgg	ggaccctggg	cctcaacagc	4560
ctctgctctg	tcgtcccccc	agatgagaag	atattcaaag	agacaggcta	ctggaacgtc	4620
accgtgtacg	ggcgcaagca	ctgttaccgg	ctctacacca	agctgctcaa	cgaggccacc	4680
cggtgggtcca	gtgccattca	aaacgtgact	gacaccaagg	ccccgatcga	cacccccacc	4740
cagcagctga	ttcaagatat	caaggagaac	tgcctgaact	cggatgtggg	ggaacagatt	4800
tacaagcgga	acccgatcct	tcgatacacc	catcacccct	tgcactcccc	gctcctgccc	4860
cttccgtatg	gggacataaa	tctcaacttg	ctcaaagaca	aaggctatac	cacccttcag	4920
gatgaggcca	tcaagatatt	caattccctg	cagcaactgg	agtccatgtc	tgaccaatt	4980
ccaataatcc	agggcacctc	acagacaggg	catgacctgc	gacctctgcg	ggacgagctg	5040
tactgccagc	ttatcaaaca	gaccaaaaa	gtgccccacc	ccggcagtgt	gggcaacctg	5100
tacagctggc	agatcctgac	atgcctgagc	tgcaccttcc	tgccgagtcg	agggattctc	5160
aagtatctca	agttccatct	gaaaaggata	cgggaacagt	ttccaggaac	cgagatggaa	5220
aaatacgctc	tcttacttta	cgaatctctt	aagaaaacca	aatgccgaga	gtttgtgcct	5280
tcccagagatg	aaatagaagc	tctgatccac	aggcaggaaa	tgacatccac	ggtctattgc	5340
catggcggcg	gctcctgcaa	gatcaccatc	aactcccaca	ccactgctgg	ggagggtggg	5400

gagaagctga	tccgaggcct	ggccatggag	gacagcagga	acatgtttgc	tttgtttgaa	5460
tacaacggcc	acgtcgacaa	agccattgaa	agtcgaaccg	tcgtagctga	tgtcttagcc	5520
aagtttgaaa	agctggctgc	cacatccgag	gttggggacc	tgccatggaa	attctacttc	5580
aaactttact	gcttcctgga	cacagacaac	gtgccaaaag	acagtgtgga	gtttgcattt	5640
atgtttgaac	aggcccacga	agcggttatc	catggccacc	atccagcccc	ggaagaaaac	5700
ctccaggttc	ttgtgcccct	gcgactccag	tatctgcagg	gggattatac	tctgcacgct	5760
gccatcccac	ctctcgaaga	ggttttattcc	ctgcagagac	tcaaggcccg	catcagccag	5820
tcaacaaaaa	ccttcacccc	ttgtgaacgg	ctggagaaga	ggcggacgag	cttcctagag	5880
gggaccctga	ggcggagctt	ccggacagga	tccgtggtcc	ggcagaaggt	cgaggaggag	5940
cagatgctgg	acatgtggat	taaggaagaa	gtctcctctg	ctcgagccag	tatcattgac	6000
aagtggagga	aatttcaggg	aatgaaccag	gaacaggcca	tggccaagta	catggccttg	6060
atcaaggagt	ggcctggcta	tggctcgacg	ctgtttgatg	tggagtgcaa	ggaaggtggc	6120
ttccctcagg	aactctgggt	gggtgtcagc	gcggacgccg	tctccgtcta	caagcgtgga	6180
gagggaaagac	cactggaagt	cttcagtat	gaacacatcc	tctcttttgg	ggcacccctg	6240
gcgaatacgt	ataagatcgt	ggtcgatgag	agggagctgc	tctttgaaac	cagtgagggtg	6300
gtggatgtgg	ccaagctcat	gaaagcctac	atcagcatga	tcgtgaagaa	gcgctacagc	6360
acgacacgct	ccgccagcag	ccagggcagc	tccaggtgaa	ggcgggacag	agcccacctg	6420
tctttgctac	ctgaacgcac	caccctctgg	cctaggctgg	ctccagtgtg	ccatgccccag	6480
ccaaaacaaa	cacagagctg	cccaggcttt	ctggaagctt	ctggtctgag	ggaggtgtct	6540
ccgaggatcc	ttttgcctgc	cgccttcatt	gatcctgtat	taagctgtca	actttaacag	6600
tctgcacagt	ttccaaagct	ttactactct	tagaggacac	atgccttaaa	aaaggagggg	6660
aggaaccacg	ctgccaccaa	agcagccgga	agtgccttaa	cttgtggaac	caacactaat	6720
cgaccgtaac	tgtgctactg	aagggaaactg	cctttccccc	ttctggggga	gacttaacag	6780
agcgtggaag	gggggcattc	tctgtcaatg	atgcactaac	ctcccaacct	gattttccccg	6840
aatctgaggg	aaggtagagg	agtgggaagg	gggatggaga	gctcgagggg	acagtgtggt	6900
tgagctggag	tgctgcgggc	agcctttctc	atggaatgac	atgaatcaac	ttttttcttt	6960
gtttcatctt	ttaagtgtac	gtgcttgccct	gttcgtgcat	gtgttcataa	actcaacact	7020
ttaatcatgg	tttcatgagc	attaaaaagc	aaagggaaaa	aggatgtgta	atggtgtaca	7080
cagtctgtat	attttaataa	tgcagagcta	tagtctcaat	tgttacttta	taagggtggtt	7140
ttattaacaa	acccaaatcc	tggattttcc	tgtctttgct	gtattttgaa	aaacacgtgt	7200
tgactccatt	gttttacatg	tagcaaagtc	tgccatctgt	gtctgctgta	ttataaacag	7260
ataagcagcc	tacaagataa	ctgtatttat	aaaccactct	tcaacagctg	gctccagtgc	7320
tggttttaga	acaagaatga	agtcattttg	gagtccttca	tgtctaaaag	atttaagtta	7380
aaaacaaagt	gttacttgga	aggttagctt	ctatcattct	ggatagatta	cagatataat	7440

```

aaccatgttg actatggggg agagacgctg cattccagaa acgtcttaac acttgagtga 7500
atcttcaaag gaccctgaca ttaaattgctg aggctttaat acacacatat tttatcccaa 7560
gtttataatg gtggtctgaa caaggcacct gtaaataaat cagcatttat gaccagaaga 7620
aaaataatct ggtcttggac tttttatfff tatatggaaa agttttaagg acttgggcca 7680
actaagtcta cccacacgaa aaaagaaatt tgccttgtcc ctttgtgtac aaccatgcaa 7740
aactgtttgt tggctcacag aagttctgac aataaaagat actagct 7787

```

<210> 11

<211> 2033

<212> DNA

<213> NM_001533.1| Homo sapiens heterogeneous nuclear ribonucleoprotein L (HNRPL), mRNA

```

<400> 11
ggacgagcag cggaggcggt cgggagcgat ggtgaagatg gcggcggcgg gcggcggagg 60
cggcgggtggc cgctactacg gcggcggcag tgagggcggc cgggcccta agcgggtcaa 120
gactgacaac gccggcgacc agcacggagg cggcggcggt ggcgggtggag gagccggggc 180
ggcgggcggc ggcggcggtg gggagaacta cgatgacccg cacaaaacc ctgcctcccc 240
agttgtccac atcagggggc tgattgacgg tgtggtggaa gcagaccttg tggaggcctt 300
gcaggagttt ggacccatca gctatgtggt ggtaatgcct aaaaagagac aagcactggt 360
ggagtttgaa gatgtgttgg gggcttgcaa cgcagtgaac tacgcagccg acaaccaaat 420
atacattgct ggtcacccag cttttgtcaa ctactctacc agccagaaga tctcccggc 480
tggggactcg gatgactccc ggagcgtgaa cagtgtgctt ctctttacca tcctgaaccc 540
catttattcg atcaccacgg atgttcttta cactatctgt aatccttgtg gccctgtcca 600
gagaattgtc attttcagga agaattggagt tcaggcgatg gtggaatttg actcagttca 660
aagtgccag cgggccaagg cctctctcaa tggggctgat atctattctg gctgttgac 720
tctgaagatc gaatacgcaa agcctacacg cttgaatgtg ttcaagaatg atcaggatac 780
ttgggactac acaaaccaca atctcagtg acaagggtgac cctggcagca accccaacaa 840
acgccagagg cagccccctc tcctgggaga tcaccccgca gaatatggag ggccccacgg 900
tggggtaccac agccattacc atgatgaggg ctacggggcc ccccccacctc actacgaagg 960
gagaaggatg ggtccaccag tgggggggtca ccgtcggggc ccaagtcgct acggccccca 1020
gtatgggcac cccccacccc ctccccacc acccgagtat ggccctcacg ccgacagccc 1080
tgtgtcatg gtctatggct tggatcaatc taagatgaac ggtgaccgag tcttcaatgt 1140
cttctgctta tatggcaatg tggagaagg gaaattcatg aaaagcaagc cgggggcccgc 1200
catggtggag atggctgatg gctacgctgt agaccgggcc attaccacc tcaacaacaa 1260

```

```

cttcatgttt gggcagaagc tgaatgtctg tgtctccaag cagccagcca tcatgcctgg 1320
tcagtcatac ggggttggaag acgggtcttg cagttacaaa gacttcagtg aatcccggaa 1380
caatcggttc tccaccccag agcaggcagc caagaaccgc atccagcacc ccagcaacgt 1440
gctgcacttc ttcaacgccc cgctggaggt gaccgaggag aacttctttg agatctgcga 1500
tgagctggga gtgaagcggc catcttctgt gaaagtattc tcaggcaaaa gtgagcgag 1560
ctcctctgga ctgctggagt gggaatccaa gagcgatgcc ctggagactc tgggcttcct 1620
gaaccattac cagatgaaaa acccaaattg tccataccct tacactctga agttgtgttt 1680
ctccactgct cagcacgcct cctaattagg tgcctaggaa gagtcccatc tgagcaggaa 1740
gacatttctc tttcctttat gccatttttt gtttttgta tttgcaaaag atcttgtatt 1800
cctttttttt tttttttttt tttaaatgct aggtttgtag aggcttactt aaccttaatg 1860
gaaacgctgg aaatctgcag ggggagggag aggggaactg ttatctccca agattaacct 1920
tcacttttaa aaaattattg tacatgtgat tttttttttt cctgttcata cttttgtgct 1980
gcccatgtac tcttggcaca tttcaataaa attgtttgga aaataaacac agc 2033

```

<210> 12

<211> 3453

<212> DNA

<213> NM_001144.3| Homo sapiens autocrine motility factor receptor (AMFR), transcript variant 1, mRNA

```

<400> 12
gggccgccgc agaggcccg cgcagcgca gggaagcctg ggggccagag gtcgccgctg 60
ccgccatgcc gctgctcttc ctcgagcgct tcccctggcc cagcctccgc acctacacgg 120
gcctcagcgg cctggccctg ctgggcacca tcatcagcgc ctaccgcgcg ctcagccagc 180
ccgaggccgg ccccggcgag ccggaccagc taacggcctc gctgcagcct gagccgcccg 240
cgcccccccg gccgagcgcc gggggacccc gggcccgca tgtggcccag tacctgctct 300
cagacagcct cttcgtgtgg gttctagtaa ataccgcttg ctgtgttttg atgttggtgg 360
ctaagctcat ccagtgtatt gtgtttggcc ctcttcgagt gagtgagaga cagcatctca 420
aagacaaatt ttggaatttt attttctaca agttcatttt catctttggt gtgctgaatg 480
tccagacagt ggaagagggt gtcattgtgt gcctctggtt tgccggactt gtctttctgc 540
acctgatggt tcagctctgc aaggatcgat ttgaatatct ttccttctcg cccaccacgc 600
cgatgagcag ccacggtcga gtcctgtccc tgttggttgc catgctgctt tcctgctgtg 660
gactggcggc cgtctgtccc atcaccggct acaccacgg aatgcacacc ttggctttca 720
tggtgcaga gtctcttctt gtgacagtga ggactgtca tgtgatttta cgatacgtaa 780
ttcacctctg ggacctcaac cacgaaggga cgtgggaagg aaaggggacg tatgtctatt 840

```

acacagactt	tgtcatggag	ctcactctcc	tgtccctgga	cctcatgcac	catattcaca	900
tgttggttatt	tggcaacatc	tggttatcca	tggccagcct	ggatcatcttt	atgcagctgc	960
gttacctggt	tcatgagggtg	caacgtcgaa	ttcgtcggca	caagaactat	ctacgtgttg	1020
ttggaaacat	ggaggccagg	tttgaggtg	caactccaga	ggagctggct	gtcaacaatg	1080
acgactgtgc	catctgttgg	gactccatgc	aggctgcgcg	gaaactgccc	tgtggacatc	1140
ttttccacaa	ctcctgtctt	cgttcctggc	tagaacaaga	cacctcctgt	ccaacatgca	1200
gaatgtctct	taatattgcc	gacaataatc	gtgtcagggg	agaacatcaa	ggagagaact	1260
tggatgagaa	tttggttcct	gtagcagcag	ccgaagggag	acctcgctta	aaccaacaca	1320
atcactttctt	ccatttcgat	gggtctcgga	ttgcgagctg	gctgccgagt	ttttcggttg	1380
aagtgatgca	caccaccaac	attcttggca	ttacgcaggc	cagcaactcc	cagctcaatg	1440
caatggctca	tcagattcaa	gagatgtttc	cccaggttcc	ataccatctg	gtactgcagg	1500
acctccagct	gacacgctca	gttgaaataa	caacagacaa	tatttttagaa	ggacggattc	1560
aagtaccttt	tcctacacag	cggtcagata	gcatcagacc	tgcattgaac	agtcctgttg	1620
aaaggccaag	cagtgaccag	gaagagggag	aaacttctgc	tcagaccgag	cgtgtgccac	1680
tggacctcag	tcctcgctg	gaggagacgc	tggacttcgg	cgaggtggaa	gtggagccca	1740
gtgaggtgga	agacttcgag	gctcgtggga	gccgcttctc	caagtctgct	gatgagagac	1800
agcgcagtgt	ggtgcagcgt	aaggacgaac	tcctccagca	agctcgcaaa	cgtttcttga	1860
acaaaagttc	tgaagatgat	gcggcctcag	agagcttcct	cccctcggaa	ggtgcgtcct	1920
ctgaccccg	gaccctgcgt	cgaaggatgc	tggctgccgc	cgcggaacgg	aggcttcaga	1980
agcagcagac	ctcctagcgc	tcccttgcc	tcctcagctg	cctcctgcgc	cctgtgccc	2040
actgactgga	ggaggcctgt	cccaattctg	cccgtccat	ggaaaagcgg	gcttgactgc	2100
attgccgctg	tataaagcat	gtggtcttat	agtgtttgga	cagctgataa	atttaatcct	2160
tctttgtaat	actttctatg	tgacatttct	cttcccccta	gaaacactgc	aaattttaac	2220
tgtaggtatg	atctcttctg	gtgttgactg	gactgcttgg	ggtggggggac	gatcaggagg	2280
aagtgagcag	tcgcctgcct	gcagcaggca	gcttctactc	ctgcctcatg	catacgtccc	2340
acaaatgcag	gtgtcctgag	caccacaccc	agtgggaaga	gtgtggggga	ggcgcacagt	2400
gtgagcccg	ccccacgtcg	tggggtaaca	tctgttatca	aactgctgtc	gttggtgttg	2460
aagcatgtag	actgtgccag	aggccagacc	cacgggctca	tgcaccctg	agccagcagg	2520
gcatcttgga	aaaggaactc	ttggttcgat	acctggagca	gaggagggga	aagtccaggg	2580
ctataggggtg	tgatgaagtc	acccctttct	gtcccactac	atctgggact	gactttccga	2640
gcctccagtc	caaagccggc	ttgatttccg	tgaactctgg	tgctcctgca	tctcatgagt	2700
gtgccccatg	ggtcccctcc	cctctcagca	tttccttgtc	ccgtctggac	ctggggagtg	2760
gttaggcagc	aagcttttgg	ttatggtttt	cattcattgg	tgaagtaaat	taggcagtg	2820

```

taaagcctgt gggtttggtc cttgaacaag atgtgggcct tgcaagatgg gagagtaaac 2880
cttgaagggc ttattataag aaataaaaaa gaacttttgt atcttttatc ctgggagcac 2940
tgcgttttcc tagctgtggt attcctgggt taattcagca gagaaggtaa ggtgtgaacc 3000
tacctgcctt ggagagggcc caggtcccaa atctcttcaa attcttcaca tgtttaactt 3060
taaggatttg aaccatgaag tcatagggtta cagacctcag ttttatgccc cattggatta 3120
cttttttttt tttttttttt tttttttttt tactctttga aagctttgtt ttgtggtagt 3180
ccttttgggg agaatccagt attatctaca attattggca aagtttaaat gtattttaca 3240
taacggaaag tttttagaat gttgaaaagt aattgaaaaa ggtgataggt aaatttttag 3300
gcaaagataa ttattttcaa taaatctttc aaaagcctta ccttgaaatg ctgttagtaa 3360
atttctgtga tttttttttt taatttggtt tgctgagagc atagctattt gtttttattg 3420
taaaacaata ataataataa aaagcaaact cta 3453

```

<210> 13

<211> 1351

<212> DNA

<213> NM_013974.1| Homo sapiens dimethylarginine dimethylaminohydrolase 2 (DDAH2), mRNA

```

<400> 13
ccgcttagac aatgccccgg agccgccaga ccgtcgcgcc cctgccccat cgtagtatat 60
gagctcgcct acacaaggac ccccgcataa agccagagct ccaggtcccc gaggcttgaa 120
gacggggact cccttctcca ccaactctgt cctcgggggg tggggcccca gccgagatca 180
cagcgcgaca ggagtggggg tggccgctgg agacaggtga agaaacaaga aaactaagaa 240
atccgagcgg ttggaggggg agtctgtgtg gatgggatgg ggacgccggg ggaggggctg 300
ggccgctgct cccatgccct gatccgggga gtcccagaga gcctggcgtc gggggaaggt 360
gcgggggctg gccttcccg ccttgatctg gccaaagctc aaaggagca cggggtgctg 420
ggaggtaaac tgaggcaacg actggggcta cagctgctag aactgccacc tgaggagtca 480
ttgccgctgg gaccgctgct tggcgacacg gccgtgatcc aaggggacac ggccctaata 540
acgcggccct ggagccccgc tcgtaggcca gaggtcgatg gagtccgcaa agccctgcaa 600
gacctggggc tccgaattgt ggaaatagga gacgagaacg cgacgctgga tggcactgac 660
gttctcttca ccggccggga gtttttcgta ggcctctcca aatggaccaa tcaccgagga 720
gctgagatcg tggcggacac gttccgggac ttcgccgtct cactgtgcc agtctcgggt 780
ccctcccacc tgcgcggtct ctgcggcatg gggggacctc gactgttgtt ggcaggcagc 840
agcgacgctg cccaaaaggc tgtccgggca atggcagtc tgacagatca cccatatgcc 900
tccctgaccc tcccagatga cgcagctgct gactgcctct ttcttcgtcc tgggttgctt 960

```



```

ggtgtgcccc ctttcctcct gcaccgtgga ggtggggatc tgcccaacag ccaggaggca 1020
ctgcagaagc tctctgatgt caccctggta cctgtgtcct gctcagaact ggagaaggct 1080
ggcgccgggc tcagctccct ctgcttggtg ctcagcacac gccccacag ctgagggcct 1140
ggccttgggg tactgctggc caggggtagg atagtatagg aagtagaagg ggaaggaggg 1200
ttagatagag aatgctgaat aggcagtagt tgggagagag cctcaatatt gggggagggg 1260
agagtgtagg gaaaaggatc cactgggtga atcctccctc tcagaaccaa taaaatagaa 1320
ttgacctttt aaaaaaaaaa aaaaaaaaaa a 1351

```

<210> 14

<211> 4180

<212> DNA

<213> NM_006291.2| Homo sapiens tumor necrosis factor, alpha-induced protein 2 (TNFAIP2), mRNA

```

<400> 14
ccagggtgat gctgaagatg atgaccttct tccaaggcct ctagagccat cagcctgtgc 60
caggcaccct cgacttgccct agaggccccc aaaagttgca gtccacatca gaggcagagt 120
cagaggcctc catgtcggag gcctcctctg aggacctggt gccaccctg gaggctgggg 180
cagccccata tagggaggag gaagaggcgg cgaagaagaa gaaggagaag aagaagaagt 240
ccaaaggcct ggccaatgtg ttctgctgtc tcaccaaagg gaagaagaag aagggtcagc 300
ccagctcagc ggagcccagag gacgcagccg ggtccaggca ggggctggat ggcccgcccc 360
ccacagtgga ggagctgaag gcggcgctgg agcgcgggca gctggaggcg gcgcggccgc 420
tgctggcgct ggagcgggag ctggcgggcg cggcggcggc gggcgggtgtg agcgaggagg 480
agctgggtgcg gcgccagagc aaggtggagg cgctgtacga gctgctgcgc gaccagggtgc 540
tgggcgtgct gcggcggccg ctggaggcgc cgcccagcgc gctgcgccag gcgctggccg 600
tggtggcgga gcaggagcgc gaggaccgcc aggcggcggc ggcggggccg gggacctcgg 660
ggctggcggc cacgcgcccc cggcgctggc tgcagctgtg gcggcgcggc gtggcgagg 720
cggccgagga gcgcatgggc cagcggcccg ccgcgggcgc cgaggtcccc gagagcgtct 780
ttctgcactt gggccgcacc atgaaggagg acctggaggc cgtggtggag cggctgaagc 840
cgctgttccc cgccgagttc ggcgtcgtgg cggcctacgc cgagagctac caccagcact 900
tcgcggccca cctggccgcc gtggcgcagt tcgagctgtg cgagcgcgac acctacatgc 960
tgctgctctg ggtgcagaac ctctaccca atgacatcat caacagcccc aagctgggtg 1020
gtgagctgca gggatatggg ctcgggagcc tcctgcccc caggcagatc cgactgctgg 1080
aggccacatt cctgtccagt gaggcggcca atgtgagggg gttgatggac cgagctctgg 1140
agctagaggc acggcgctgg gctgaggatg tgcctcccca gaggctggac ggccactgcc 1200

```

acagcgagct	ggccatcgac	atcatccaga	tcacctccca	ggcccaggcc	aaggccgaga	1260
gcatcacgct	ggacttgggc	tcacagataa	agcgggtgct	gctggtggag	ctgcctgcgt	1320
tcctgaggag	ctaccagcgc	gcctttaatg	aatttctgga	gagaggcaag	cagctgacga	1380
attacagggc	caatgttatt	gccaacatca	acaactgcct	gtccttccgg	atgtccatgg	1440
agcagaattg	gcaggtaccc	caggacaccc	tgagcctcct	gctgggcccc	ctgggtgagc	1500
tcaagagcca	cggctttgac	accctgctcc	agaacctgca	tgaggacctg	aagccactgt	1560
tcaagaggtt	cacgcacacc	cgctgggcgg	cccctgtgga	gaccctggaa	aacatcatcg	1620
ccactgtaga	cacgaggctg	cctgagttct	cagagctgca	gggctgtttc	cgggaggagc	1680
tcatggaggc	cttgcacctg	cacctggtga	aggagtacat	catccaactc	agcaaggggc	1740
gcctggtcct	caagacggcc	gagcagcagc	agcagctggc	tgggtacatc	ctggccaatg	1800
ctgacaccat	ccagcacttc	tgcacccagc	acggctcccc	ggcgacctgg	ctgcagcctg	1860
ctctccctac	gctggccgag	atcattcgcc	tgcaggaccc	cagtgccatc	aagattgagg	1920
tggccactta	tgccacctgc	taccctgact	tcagcaaagg	ccacctgagc	gctatcctgg	1980
ccatcaaggg	gaacctatcc	aacagtgagg	tcaagcgcac	ccggagcatc	ttggacgtca	2040
gcatgggggc	gcaggagccc	tcccggcccc	tattttccct	tataaagggt	ggttagcttt	2100
tcctgtggcc	tgacctgcct	gtgagtggcc	agcaagcctt	gggcacaccc	cgctgggagc	2160
tgtaagagc	agcgtgggt	ctcggttcct	cccgggtctc	ctgtgctctg	atgctacttc	2220
tgcttagccc	tggcgagggt	gcaggccctg	tcagctggaa	ctggacagac	cttggtttgt	2280
ttacatgtcc	gatgggggca	ggagctccca	tcctgggcag	ccaaccaggc	aacaccaagg	2340
actctttgta	aacgatagct	gatcgtgtgc	acgcaaggaa	agaaccagga	gggagagtgc	2400
agccaggctc	agggatcccc	ggacacctct	gtccagagcc	cctccacagt	cggcctcatg	2460
actgtcctcc	tcgtgggtgg	ggccgagggc	cctcttcagc	tctctggaga	caggggcccga	2520
gcctcaccca	tctgccctct	gcagcccagg	gccgccgtga	gcgggattca	gcaatggtgg	2580
aatggaagac	agaactggaa	gagaaagaag	gaaaagatga	gctctcgtct	ggcaggggct	2640
tttagggctc	tgtggcgagc	tgtgagcacc	gccagcatta	gacgtcacat	ccagggtggc	2700
ccacggcccc	tacaggctgg	ccctgcaatg	gggccctgag	ccctccctct	tcatcccca	2760
aggcctcaac	tagagggtgg	tcccccgagg	gcttggtgtc	tactaccgaa	gggcccaga	2820
cctcctgggt	cctctcaggc	tcccccttcc	ccaaggcagg	gacaggccct	gggggtgcca	2880
ccgtgggccc	tgccaccag	aagtctggct	gaggtctggg	caggggcagg	gcaagcttga	2940
cctctcactg	ttgacccttt	ggcctctgta	tttgtttcct	attgccgtga	caggtttcca	3000
caaacttcgt	ggatcaaaac	gaggtcttcc	agttctgcgg	gtcagaaggc	tgaccggggg	3060
ctcaaactctg	ggtgtcggca	gtcctgcact	ccttctggag	gctctagggg	agaattcatt	3120
tctggccttt	tcatttttag	aggctgaccg	taattcttga	cttcaggctc	ctccatcttc	3180
agagccagct	gtgggtagtt	gaatcttttt	cccgtcacct	cattgaggcc	tccccctctc	3240

```

tgcctccctc caccactttt tttttttttt ttttgagaca gggctcttgct gtgttgccca 3300
ggctggagtg cagtggcctg gtcattggcat caaggctcac tgcagcctgg acctcctggt 3360
tcaagtgatc ctcttgctc agtcccctga gacaatcccc cacgcccagc tacatatattt 3420
ttgtggatac aggggtctcat tctgttgctt aggccttgctt ggaactcctg ggctcaaggg 3480
atcttgtagc cttagcctcc taaagtgtct ggattatagg catgagtcac tgtacccggc 3540
ctgctctacc gcttttaagg acgcttatga tcacattgct cctaccaga gaaccaggt 3600
cgtctttcta ttttcaggct agctgattag ccaccttagt tccatctgca acttttagttc 3660
ccactggctg tgtaacctaa catagtcaca ggctctgggg actgtcacgt ggacatcttt 3720
gggaggccgt tattctgccc accgcaccct ccgttcatcc cctgccctgc cgggcacctc 3780
gctctacccc aggaaaatgt gagctcggtt tcctgctcgg catgtgctcc ccctaaggct 3840
ctgctcctcc ctgggcctga aagttccttc tcagcctgag agggggccct tcggactcag 3900
gcatgactca gcccggctga tgcctctgca gtgctgagtc aggatttggg gccggctctc 3960
ttgggtccgt ccccttttcc caggctactgc cttacaaagc tgtggccagg aagtggccgg 4020
tataaaggat gcccaaggct tttgtacgtg tgtaggagtt agcgtgtttg atattgttaa 4080
tataataata attatttttt agagtactgc ttttgtatgt atgttgaaca ggatccaggt 4140
ttttatagct tgatataaaa cagaattcaa aagtgaataa 4180

```

<210> 15

<211> 2524

<212> DNA

<213> NM_000249.2| Homo sapiens mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) (MLH1), mRNA

```

<400> 15
attggctgaa ggcacttccg ttgagcatct agacgtttcc ttggctcttc tggcgccaaa 60
atgtcgttcg tggcaggggt tattcggcgg ctggacgaga cagtggtgaa ccgcatcgcg 120
gcgggggaag ttatccagcg gccagctaag gctatcaaag agatgattga gaactgttta 180
gatgcaaat ccacaagtat tcaagtgatt gttaaagagg gaggcctgaa gttgattcag 240
atccaagaca atggcaccgg gatcaggaaa gaagatctgg atattgtatg tgaaagggtc 300
actactagta aactgcagtc ctttgaggat ttagccagta tttctaccta tggctttcga 360
ggtgaggctt tggccagcat aagccatgtg gctcatgtta ctattacaac gaaaacagct 420
gatggaaagt gtgcatacag agcaagttac tcagatggaa aactgaaagc ccctcctaaa 480
ccatgtgctg gcaatcaagg gaccagatc acggtggagg acctttttta caacatagcc 540
acgaggagaa aagcttttaa aaatccaagt gaagaatatg ggaaaatttt ggaagtgtgt 600
ggcaggtatt cagtacacaa tgcaggcatt agtttctcag ttaaaaaaca aggagagaca 660

```

gtagctgatg	ttaggacact	acccaatgcc	tcaaccgtgg	acaatattcg	ctccatcttt	720
ggaaatgctg	ttagtcgaga	actgatagaa	attggatgtg	aggataaaac	cctagccttc	780
aaaatgaatg	gttacatata	caatgcaaac	tactcagtga	agaagtgcac	cttcttactc	840
ttcatcaacc	atcgtctggg	agaatcaact	tccttgagaa	aagccataga	aacagtgtat	900
gcagcctatt	tgcccaaaaa	cacacaccca	ttcctgtacc	tcagttttaga	aatcagtgcc	960
cagaatgtgg	atgttaatgt	gcacccca	aagcatgaag	ttcacttcct	gcacgaggag	1020
agcatcctgg	agcgggtgca	gcagcacatc	gagagcaagc	tcctgggctc	caattcctcc	1080
aggatgtact	tcaccagac	tttgctacca	ggacttgctg	gccctctgg	ggagatgggt	1140
aaatccacaa	caagtctgac	ctcgtcttct	acttctggaa	gtagtgataa	ggcttatgcc	1200
caccagatgg	ttcgtacaga	ttcccgggaa	cagaagcttg	atgcatttct	gcagcctctg	1260
agcaaacc	tgtccagtca	gccccaggcc	attgtcacag	aggataagac	agatatttct	1320
agtggcagg	ctaggcagca	agatgaggag	atgcttgaac	tcccagcccc	tgctgaagt	1380
gctgccaaaa	atcagagctt	ggagggggat	acaacaaagg	ggacttcaga	aatgtcagag	1440
aagagaggac	ctacttccag	caacccaga	aagagacatc	gggaagattc	tgatgtggaa	1500
atgggtggaag	atgattccc	aaaggaaatg	actgcagctt	gtaccccccg	gagaaggatc	1560
attaacctca	ctagtgtttt	gagtctccag	gaagaaatta	atgagcagg	acatgagggt	1620
ctccgggaga	tggtgcataa	ccactccttc	gtgggctgtg	tgaatcctca	gtgggccttg	1680
gcacagcatc	aaaccaagtt	ataccttctc	aacaccacca	agcttagtga	agaactgttc	1740
taccagatac	tcatttatga	ttttgccaat	tttgggtgtt	tcagggttatc	ggagccagca	1800
ccgctctttg	accttgccat	gcttgcctta	gatagtccag	agagtggctg	gacagaggaa	1860
gatgggtcca	aagaaggact	tgctgaatac	attgttgagt	ttctgaagaa	gaaggctgag	1920
atgcttgag	actatttctc	tttggaat	gatgaggaag	ggaacctgat	tggattaccc	1980
cttctgattg	acaactatgt	gccccctttg	gagggactgc	ctatcttcat	tcttcgacta	2040
gccactgagg	tgaattggga	cgaagaaaag	gaatgttttg	aaagcctcag	taaagaatgc	2100
gctatgttct	attccatccg	gaagcagtac	atatctgagg	agtcgaccct	ctcaggccag	2160
cagagtgaag	tgcttggtc	cattccaaac	tcctggaagt	ggactgtgga	acacattgtc	2220
tataaagcct	tgcgctcaca	cattctgcct	cctaaacatt	tcacagaaga	tggaaatatac	2280
ctgcagcttg	ctaacctgcc	tgatctatac	aaagtctttg	agagggtgtta	aatatgggtta	2340
tttatgcact	gtgggatgtg	ttcttctttc	tctgtattcc	gatacaaagt	gttgatcaaa	2400
agtgtgatat	acaaagtgtg	ccaacataag	tggttgtagc	acttaagact	tatacttgcc	2460
ttctgatagt	attcctttat	acacagtggg	ttgattataa	ataaatagat	gtgtcttaac	2520
ataa						2524

<210> 16

<211> 1536

<212> DNA

<213> NM_001071.1| Homo sapiens thymidylate synthetase (TYMS), mRNA

<400> 16

```

gggggggggg ggaccacttg gcctgcctcc gtcccgcgc gccacttggc ctgcctccgt      60
cccgccgcgc cacttcgcct gcctccgtcc cccgcccgcc gcgccatgcc tgtggccggc      120
tcggagctgc cgcgccggcc cttgcccccc gccgcacagg agcgggacgc cgagccgcgt      180
ccgccgcacg gggagctgca gtacctgggg cagatccaac acatcctccg ctgcggcgctc      240
aggaaggacg accgcacggg caccggcacc ctgtcggtat tcggcatgca ggcgcgctac      300
agcctgagag atgaattccc tctgctgaca accaaacgtg tgttctggaa ggggtgtttt      360
gaggagtgtc tgtggtttat caagggatcc acaaatgcta aagagctgtc ttccaagggg      420
gtgaaaatct gggatgccaa tggatccga gacttttttg acagcctggg attctccacc      480
agagaagaag gggacttggg cccagtttat ggcttccagt ggaggcattt tggggcagaa      540
tacagagata tggaatcaga ttattcagga cagggagtgt accaactgca aagagtgatt      600
gacaccatca aaaccaaccc tgacgacaga agaatcatca tgtgcgcttg gaatccaaga      660
gatcttcttc tgatggcgct gcctccatgc catgccctct gccagttcta tgtggtgaac      720
agtgagctgt cctgccagct gtaccagaga tcgggagaca tgggcctcgg tgtgcctttc      780
aacatcgcca gctacgccct gtcacgtac atgattgcgc acatcacggg cctgaagcca      840
ggtgacttta tacacacttt gggagatgca catatttacc tgaatcacat cgagccactg      900
aaaattcagc ttcagcgaga acccagacct ttcccaaagc tcaggattct tcgaaaagtt      960
gagaaaattg atgacttcaa agctgaagac tttcagattg aagggtacaa tccgcatcca     1020
actattaaaa tggaaatggc tgtttagggg gctttcaaag gagcttgaag gatattgtca     1080
gtcttttaggg gttgggctgg atgccgaggt aaaagtctct tttgctctaa aagaaaaagg     1140
aactaggtca aaaatctgtc cgtgacctat cagttattaa tttttaagga tgttgccact     1200
ggcaaatgta actgtgccag ttctttccat aataaaaggc tttgagttaa ctactgagg     1260
gtatctgaca atgctgaggt tatgaacaaa gtgaggagaa tgaaatgtat gtgctcttag     1320
caaaaacatg tatgtgcatt tcaatccac gtacttataa agaaggttgg tgaatttcac     1380
aagctatttt tggaatatTT ttagaatatt ttaagaattt cacaagctat tccctcaaat     1440
ctgagggagc tgagtaacac catcgatcat gatgtagagt gtggttatga actttatagt     1500
tgttttatat gttgctataa taaagaagtg ttctgc                                1536

```

<210> 17

<211> 2986

<212> DNA

<213> NM_000201.1| Homo sapiens intercellular adhesion molecule 1 (CD54), human rhinovirus receptor (ICAM1), mRNA

```

<400> 17
gcgccccagt cgacgctgag ctccctctgct actcagagtt gcaacctcag cctcgctatg      60
gctcccgagca gcccccggcc cgcgctgccc gcactcctgg tcctgctcgg ggctctgttc      120
ccaggacctg gcaatgcccc gacatctgtg tccccctcaa aagtcacccct gccccgggga      180
ggctccgtgc tgggtgacatg cagcacctcc tgtgaccagc ccaagttggt gggcatagag      240
accccgttgc ctaaaaagga gttgctcctg cctgggaaca accggaaggt gtatgaactg      300
agcaatgtgc aagaagatag ccaaccaatg tgctattcaa actgccctga tgggcagtca      360
acagctaaaa ctttcctcac cgtgtactgg actccagaac gggtggaact ggcacccctc      420
ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga ggggtggggca      480
ccccggggcca acctcacctg ggtgctgctc cgtggggaga aggagctgaa acgggagcca      540
gctgtggggg agcccgtga ggtcacgacc acggtgctgg tgaggagaga tcaccatgga      600
gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggctgga gctgtttgag      660
aacacctcgg cccctacca gctccagacc tttgtcctgc cagcgactcc cccacaactt      720
gtcagcccc gggtcctaga ggtggacacg caggggaccg tggctctgttc cctggacggg      780
ctgttcccag tctcggaggc ccaggtccac ctggcactgg gggaccagag gttgaacccc      840
acagtcacct atggcaacga ctccctctcg gccaaggcct cagtcagtgt gaccgcagag      900
gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca      960
ctgcagacag tgaccatcta cagctttccg gcgccaacg tgattctgac gaagccagag     1020
gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caaggtgacg     1080
ctgaatgggg ttccagcccc gccactgggc ccgagggccc agctcctgct gaaggccacc     1140
ccagaggaca acgggcgcag cttctcctgc tctgcaaccc tggaggtggc cggccagctt     1200
atacacaaga accagacccg ggagcttcgt gtcctgtatg gccccgact ggacgagagg     1260
gattgtccgg gaaactggac gtggccagaa aattcccagc agactccaat gtgccaggct     1320
tgggggaacc cattgcccga gctcaagtgt ctaaaggatg gcactttccc actgcccatac     1380
ggggaatcag tgactgtcac tcgagatctt gagggcacct acctctgtcg ggccaggagc     1440
actcaagggg aggtcacccg cgaggtgacc gtgaatgtgc tctccccccg gtatgagatt     1500
gtcatcatca ctgtggtagc agccgcagtc ataatgggca ctgcaggcct cagcacgtac     1560
ctctataacc gccagcggaa gatcaagaaa tacagactac aacaggccca aaaagggacc     1620
cccatgaaac cgaacacaca agccacgcct ccctgaacct atcccgggac agggcctctt     1680
cctcggcctt cccatattgg tggcagtggg gccacactga acagagtgga agacatatgc     1740

```

```

catgcagcta cacctaccgg ccctgggacg ccggaggaca gggcattgtc ctcagtcaga 1800
tacaacagca tttggggcca tggtagctgc acacctaata cactaggcca cgcattctgat 1860
ctgtagtcac atgactaagc caagaggaag gagcaagact caagacatga ttgatggatg 1920
ttaaagtcta gcctgatgag aggggaagtg gtgggggaga catagcccca ccatgaggac 1980
atacaactgg gaaatactga aacttgctgc ctattgggta tgctgaggcc cacagactta 2040
cagaagaagt ggccctccat agacatgtgt agcatcaaaa cacaaggcc cacacttcct 2100
gacggatgcc agcttgggca ctgctgtcta ctgaccccaa cccttgatga tatgtattta 2160
ttcatttgtt attttaccag ctattttatt agtgtctttt atgtaggcta aatgaacata 2220
ggctctctggc ctcacggagc tcccagtcca tgtcacattc aaggtcacca ggtacagttg 2280
tacaggttgt acactgcagg agagtgcctg gcaaaaagat caaatggggc tgggacttct 2340
cattggccaa cctgcctttc ccagaaagga gtgatttttc tatcggcaca aaagcactat 2400
atggactggg aatggttcac aggttcagag attaccaggt gaggccttat tcctcccttc 2460
ccccaaaac tgacaccttt gttagccacc tccccacca catacatttc tgccagtgtt 2520
cacaatgaca ctcagcggtc atgtctggac atgagtggcc agggaaatag cccaagctat 2580
gccttgtcct cttgtcctgt ttgcatttca ctgggagctt gcactattgc agctccagtt 2640
tcctgcagtg atcaggggcc tgcaagcagt ggggaagggg gccaaggatg tggaggactc 2700
cctcccagct ttggaagggc catccgcgtg tgtgtgtgtg tgtatgtgta gacaagctct 2760
cgctctgtca ccagggctgg agtgcagtgg tgcaatcatg gttcactgca gtcttgacct 2820
tttgggtca agtgatcctc ccacctcagc ctctgagta gctgggacca taggctcaca 2880
acaccacacc tggcaaatat gatTTTTTTT ttttttttca gagacggggg ctcgcaacat 2940
tgcccagact tcctttgtgt tagttaataa agctttctca actgcc 2986

```

<210> 18

<211> 736

<212> DNA

<213> NM_004492.1| Homo sapiens general transcription factor IIA, 2 (12kD subunit) (GTF2A2), mRNA

```

<400> 18
cgagctggag aggtgggtcgg agaagtagga acctcctgcc gggctcgtgg cggcttctgt 60
ccgctccgag gaggggaagcg cttccccac aggacatcaa tgcaagcttg aataagaaaa 120
acaaattctt cctcctaagc catggcatat cagttataca gaaatactac tttgggaaac 180
agtcttcagg agagcctaga tgagctcata cagtctcaac agatcacccc ccaacttgcc 240
cttcaagttc tacttcagtt tgataaggct ataatgcag cactgggtca gagggtcagg 300
aacagagtca atttcagggg ctctctaaat acgtacagat tctgcgataa tgtgtggact 360

```

```

tttgtactga atgatgttga attcagagag gtgacagaac ttattaaagt ggataaagtg      420
aaaattgtag cctgtgatgg taaaaatact ggctccaata ctacagaatg aatagaaaaa      480
atatgactttt ttacacccat cttctgttat tcattgcttt tgaagagaag catagaagag      540
actttttattt tattctagaa ttgcagaaat gactacactg tgctatacca gagaattcca      600
gtagaaagaa acttgtaact ctgtagcctc ttacatcacc ttattatac agcatgaaaa      660
accataactt tttttaagg acaaaagttg ttgccttcct aagaaccttc ttaataaac      720
tcattttaaa actctg                                     736

```

<210> 19

<211> 6401

<212> DNA

<213> NM_004850.3| Homo sapiens Rho-associated, coiled-coil containing protein kinase 2 (ROCK2), mRNA

```

<400> 19
caaggcggcc ggcggcgacc atggcagcgg gccggcgggcg gccgtagtgg cccaggcctg      60
ggcttcagcc tcccggggcc ccagagggcg gggcggtccg ggccgcggcg gtggcgggcg      120
cacttccttg ctcccgcccg aggactcctg cgggcactcg ctgaggacca gcggaccggc      180
ggcgcgaaatc tgactgaggg gcgggggacgc cgtctgttcc ccgccgctcc cggcagggcc      240
gggcccgggct gggccgggct gggccgggcg ggccccctggg agcagcccc aggccggggga      300
ccgccttgga gacccgaagc cggagctaga ggcaggcggt gggcccgggt ggagtcccg      360
ccggagctgg tggttcgggg gcggtgctag gccccgaggc tgcgggacct gagcgcgagg      420
agcctgagtg cgggtccagc ggtggcggca tgagccggcc cccgccgacg gggaaaatgc      480
ccggcgcccc cgagaccgcg ccgggggacg gggcaggcgc gagccgccag aggaagctgg      540
aggcgctgat ccgagaccct cgctcccca tcaacgtgga gagcttgctg gatggcttaa      600
attccttggt ccttgattta gattttcctg ctttgaggaa aaacaagaac atagataatt      660
tcttaaatag atatgagaaa attgtgaaaa aaatcagagg tctacagatg aaggcagaag      720
actatgatgt tgtaaaagtt attggaagag gtgcttttgg tgaagtgcag ttggttcgct      780
acaaggcatc gcagaagggt tatgctatga agcttcttag taagtttgaa atgataaaaa      840
gatcagattc tgcctttttt tgggaagaaa gagatattat ggcctttgcc aatagcccct      900
gggtggttca gcttttttat gcctttcaag atgataggta tctgtacatg gtaatggagt      960
acatgcctgg tggagacctt gtaaacctta tgagtaatta tgatgtgcct gaaaaatggg     1020
ccaaatttta cactgctgaa gttgttcttg ctctggatgc aatacactcc atgggtttaa     1080
tacacagaga tgtgaagcct gacaacatgc tcttgataa acatggacat ctaaaattag     1140
cagattttgg cacgtgtatg aagatggatg aaacaggcat ggtacattgt gatacagcag     1200

```


ttggaacacc	ggattatata	tcacctgagg	ttctgaaatc	acaagggggt	gatggtttct	1260
atgggcgaga	atgtgattgg	tgggtctgtag	gtgttttcct	ttatgagatg	ctagtggggg	1320
atactccatt	ttatgcggat	tcacttgtag	gaacatatag	caaaattatg	gatcataaga	1380
attcactgtg	tttccctgaa	gatgcagaaa	tttccaaaca	tgcaaagaat	ctcatctgtg	1440
ctttcttaac	agatagggag	gtacgacttg	ggagaaatgg	ggtggaagaa	atcagacagc	1500
atcctttcct	taagaatgat	cagtggcatt	gggataacat	aagagaaacg	gcagctcctg	1560
tagtacctga	actcagcagt	gacatagaca	gcagcaatct	cgatgacatt	gaagatgaca	1620
aaggagatgt	agaaaccttc	ccaattccta	aagcttttgt	tggaaatcag	ctgcctttca	1680
tcggattttac	ctactataga	gaaaatttat	tattaagtga	ctctccatct	tgtagagaaa	1740
ctgattccat	acaatcaagg	aaaaatgaag	aaagtcaaga	gattcagaaa	aaactgtata	1800
cattagaaga	acatcttagc	aatgagatgc	aagccaaaga	ggaactggaa	cagaagtgca	1860
aatctgttaa	tactcgccta	gaaaaaacag	caaaggagct	agaagaggag	attaccttac	1920
ggaaaagtgt	ggaatcagca	ttaagacagt	tagaaagaga	aaaggcgctt	cttcagcaca	1980
aaaatgcaga	atatcagagg	aaagctgatc	atgaagcaga	caaaaaacga	aatttggaag	2040
atgatgttaa	cagcttaaaa	gatcaacttg	aagatttgaa	aaaaagaaat	caaaactctc	2100
aaatatccac	tgagaaagtg	aatcaactcc	agagacaact	ggatgaaacc	aatgctttac	2160
tgcgaaacaga	gtctgatact	gcagcccggg	taaggaaaac	ccaggcagaa	agttcaaaac	2220
agattcagca	gctggaatct	aacaatagag	atctacaaga	taaaaactgc	ctgctggaga	2280
ctgccaagtt	aaaacttgaa	aaggaattta	tcaatcttca	gtcagctcta	gaatctgaaa	2340
ggaggggatcg	aaccatgga	tcagagataa	ttaatgattt	acaaggtaga	atatgtggcc	2400
tagaagaaga	tttaaagaac	ggcaaaatct	tactagcgaa	agtagaactg	gagaagagac	2460
aacttcagga	gagatttact	gatttggaag	aggaaaaaag	caacatggaa	atagatatga	2520
cataccaact	aaaagttata	cagcagagcc	tagaacaaga	agaagctgaa	cataaggcca	2580
caaaggcacg	actagcagat	aaaaataaga	tctatgagtc	catcgaagaa	gccaaatcag	2640
aagccatgaa	agaaatggag	aagaagctct	tggaggaaag	aactttaaaa	cagaaagtgg	2700
agaacctatt	gctagaagct	gagaaaagat	gttctctatt	agactgtgac	ctcaaacagt	2760
cacagcagaa	aataaatgag	ctccttaaac	agaaagatgt	gctaaatgag	gatgttagaa	2820
acctgacatt	aaaaatagag	caagaaactc	agaagcgctg	ccttacacaa	aatgacctga	2880
agatgcaaac	acaacaggtt	aacacactaa	aaatgtcaga	aaagcagtta	aagcaagaaa	2940
ataaccatct	catggaaatg	aaaatgaact	tggaaaaaca	aaatgctgaa	cttcgaaaag	3000
aacgtcagga	tgcatgagg	caaatgaaag	agctccagga	tcagctcgaa	gcagaacagt	3060
atttctcaac	cctttataaa	acacaagtta	gggagcttaa	agaagaatgt	gaagaaaaga	3120
ccaaacttgg	taaagaattg	cagcagaaga	aacaggaatt	acaggatgaa	cgggactctt	3180

tggtgcccc	actggagatc	accttgacca	aagcagattc	tgagcaactg	gctcgttcaa	3240
ttgctgaaga	acaatattct	gatttgga	aagagaagat	catgaaagag	ctggagatca	3300
aagagatgat	ggctagacac	aaacaggaac	ttacggaaaa	agatgctaca	attgcttctc	3360
ttgaggaaac	taataggaca	ctaactagt	atgttgccaa	tcttgcaaat	gagaaagaag	3420
aattaaataa	caaattgaaa	gatgttcaag	agcaactgtc	aagattgaaa	gatgaagaaa	3480
taagcgcagc	agctattaaa	gcacagtttg	agaagcagct	attaacagaa	agaacactca	3540
aaactcaagc	tgtgaataag	ttggctgaga	tcatgaatcg	aaaagaacct	gtcaagcgtg	3600
gtaatgacac	agatgtgctg	agaaaagaga	aggagaatag	aaagctacat	atggagctta	3660
aatctgaacg	tgagaaattg	accagcaga	tgatcaagta	tcagaaagaa	ctgaatgaaa	3720
tgaggcaca	aatagctgaa	gagagccaga	ttcgaattga	actgcagatg	acattggaca	3780
gtaaagacag	tgacattgag	cagctgcggt	cacaactcca	agccttgcat	attggtctgg	3840
atagttccag	tataggcagt	ggaccagggg	atgctgaggc	agatgatggg	tttccagaat	3900
caagattaga	aggatggctt	tcattgcctg	tacgaaacaa	cactaagaaa	tttggtggg	3960
ttaaaaagta	tgtgattgta	agcagtaaga	agattctttt	ctatgacagt	gaacaagata	4020
aagaacaatc	caatccttac	atggtttttag	atatagacaa	gttattttcat	gtccgaccag	4080
ttacacagac	agatgtgtat	agagcagatg	ctaaagaaat	tccaaggata	ttccagattc	4140
tgtatgccaa	tgaaggagaa	agtaagaagg	aacaagaatt	tccagtggag	ccagttggag	4200
aaaaatctaa	ttatatgtgc	cacaagggac	atgagtttat	tcctactctt	tatcattttc	4260
caaccaactg	tgaggcttgt	atgaagcccc	tgtggcacat	gtttaagcct	cctcctgctt	4320
tgagtgccg	ccgttgccat	attaagtgtc	ataaagatca	tatggacaaa	aaggaggaga	4380
ttatagcacc	ttgcaaagta	tattatgata	tttcaacggc	aaagaatctg	ttattactag	4440
caaattctac	agaagagcag	cagaagtggg	ttagtcggtt	ggtgaaaaag	atacctaaaa	4500
agcccccagc	tccagaccct	tttgccccgat	catctcctag	aacttcaatg	aagatacagc	4560
aaaaccagtc	tattagacgg	ccaagtcgac	agcttgcccc	aaacaaacct	agctaactgc	4620
cttctatgaa	agcagtcatt	attcaagggt	atcgatttct	tccagtgaaa	acaagactga	4680
aatatgatgg	cccaaatttt	attaaaaagc	tatattttcc	tgagagactg	atacatacac	4740
tcatacatat	atgtgttccc	cttttccctg	taatataaat	tacaaatctg	ggctcctttg	4800
aagcaacagg	ttgaaccaac	aatgattggt	tgatagacta	aggatatatg	caactcttcc	4860
agacttttcc	ataaagctct	ctcggcagtc	gctcacacta	caatgcacac	aaggattgag	4920
aagagttaaa	ggctaaagaa	aacatctttt	ctagcttcaa	cagagagggt	tcaccagcac	4980
atttaccaga	agaatctggg	aatggattcc	actacagtga	tattgactgc	atctttaaga	5040
agtgaccatt	atactgtgta	tatatatata	aacacacaca	catatatata	tatatatata	5100
gtactcta	actgcaagaa	ggttttttta	acttcccact	ttatttttta	tacacattaa	5160
tcagatatca	ttacttgctg	cagttgcaac	tatgcacttg	tataaagcca	taatgttgga	5220

```

gtttatatca ctcattcctg tgtacctgat ggaagttgca tgttcatggt taagcagtta 5280
ctgtaacaag aagtttaaag ttaattatat cagtttccta atgcttcatg ataggcaact 5340
ttacccattht tgaatgcctt aatttaattt ttttcaaagt ctgagccctg tctgtattaa 5400
aaaacaaaaa aagcgtttac cagctcttag gatgtaaact agctttgtgg aagataaatc 5460
gtgcactatt tttacacata aatagttata tcaatgtcag cctattttga ttaacaaatg 5520
tttttaaagt attattgggt atagaaacaa taatggatgg tgttggaact aatatatcct 5580
tgatgtctgt ctattattca ttcaactctt tttacagacc tcagtattag tctgtgacta 5640
caaaatattht tatttgcttht aaatttgctg gctaccctag atgtgttttht attcctggta 5700
aagacatttg tgattacatt ttcacactta agattcaaaa tttttcccaa atataaagaa 5760
aactaagaca gactgtagat gcatttttaa tatttaaata tgatcctcag acatgcagct 5820
gtgtgtggca gtatttttagt accgggttaa gaaaactggc aactgggaag aagtggcctc 5880
aaaggcactt aatttgattt ttatttttta aatgctgtca aagttacagt ttacgcagga 5940
cattcttgcc gtattctcat gatcccagat aagtgtgtgt tttatactgc aacaatatgc 6000
agcaatggta agcgtaaagt tttttttttg tttttgtttt tttttatatt atgaagtctt 6060
ttaacagtct ctctttatat aaatacacag agtttggtat gatattttaa tacatcatct 6120
ggccaggcat ggtggcttac gcctgtaatc ctagcacttht gggaggccaa gacgggcgga 6180
tcacctgagg tgaggagttc aagaccagcc tgcccaacat agtgaaactc cgtctctacc 6240
aatatacaaa aattagccgg gcattgatgg ggtggcctgt aatcccagct acttgggagg 6300
ctgagacagg agaatcgctt gaaccagga gacgggtggt gcagtgagcg aagatcgagc 6360
cactgcactc cagcctgggc agctgaacaa gactccgtct c 6401

```

<210> 20

<211> 1556

<212> DNA

<213> NM_005783.3| Homo sapiens thioredoxin domain containing 9 (TXNDC9), mRNA

<400> 20

```

ggcgtccaag gtgatatcg cgcagggttc cagccaataa ggaggcggat gtgacggccc 60
gtttgcagcc gccggcagct actgcaaggc aaaagccgga gtggacgtgt cttttgaaac 120
tgctgctctt tcacttctca ggcgtcaccg agagctcagc acccaggctg aactctgtac 180
catttggaag aatggaagct gatgcatctg ttgacatggt ttccaaagtc ctggagcatc 240
agctgcttca gactaccaa ctggtggaag aacatttgga ttctgaaatt caaaaactgg 300
atcagatgga tgaggatgaa ttggaacgcc ttaaagaaaa gagactccag gcactaagga 360
aagctcaaca gcagaaacaa gaatggcttht ctaaaggaca tggggaatac agagaaatcc 420

```

```

ctagtgaag agactttttt caagaagtca aggagagtga aaatgtgggt tgccatttct 480
acagagactc cacattcagg tgtaaaatac tagacagaca tctggcaata ttgtccaaga 540
aacacctcga gaccaaattt ttgaagctga atgtggaaaa agcacctttc ctttgtgaga 600
gactgcatat caaagtcatt cccacactag cactgctaaa agatgggaaa acacaagatt 660
atgttggttg gtttactgac ctaggaaata cagatgactt caccacagaa actttagaat 720
ggaggctcgg ttcttctgac attcttaatt acagtggaaa tttaatggag ccaccatttc 780
agaacaaaaa gaaatttgga acaaacttca caaagctgga aaagaaaact atccgaggaa 840
agaaatatga ttcagactct gatgatgatt agagctcaat aattctttgt aaattgtctt 900
tttttttctg cttcagattt aaatgtgttt ttaaaattct attaatgtct atacattggg 960
cacctaaata ctcatattct cgagttttat acagttgtat cacatcgaaa agtgtcttta 1020
ctgttttctg tgtggccatc atgtttaagt tgaggaaaac tcagttctta aattatctgg 1080
gaagggtctg gattctctat ttttgagatt gactttatca caatatgatt cttacatctt 1140
tataccattt acaatttgtt tttagatcta cagagttaga aattcgaaaa ctattccagg 1200
actaattctt aatcggcatt atttatacaa gaggtcaagt aacatttact agcgcaatac 1260
tgcacttgta aatgaattat aaacgctctt ctggaatata tttaaataac cattaaagaa 1320
ctgcttattc attctggaca ctgcatgttg atgttgaaac aactgatgcc agcagaaagc 1380
tattttgatt tgtgaacata ctgccttatt taaaggggtc tgattgcttg tattttaaga 1440
cattcattaa aaagaaacca ggaaacactt ttgaaataac agcataagga acttcactgt 1500
ctctgctcaa taaaatacct gtaactggaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1556

```

<210> 21

<211> 1276

<212> DNA

<213> NM_003581.1| Homo sapiens NCK adaptor protein 2 (NCK2), mRNA

```

<400> 21
gtgccaaaga aggactccat gaaagatgac agaagaagtt attgtgatag ccaagtggga 60
ctacaccgcc cagcaggacc aggagctgga catcaagaag gtgaacgagc ggctgtgggt 120
gctggacgac tccaagacgt ggtggcgggt gaggaacgcg gccaacagga cgggctatgt 180
accgtccaac tacgtggagc ggaagaacag cctgaagaag ggctccctcg tgaagaacct 240
gaaggacaca ctaggcctcg gcaagacgcg caggaagacc agcgcgcggg atgcgtcccc 300
cacgcccagc acggacgccg agtaccgccg caatggcagc ggcgccgacc gcatctacga 360
cctcaacatc ccggccttcg tcaagttcgc ctatgtggcc gagcgggagg atgagttgtc 420
cctggtgaag gggtcgcgcg tcaccgtcat ggagaagtgc agcgacgggt ggtggcgggg 480
cagctacaac gggcagatcg gctggttccc ctccaactac gtcttgaggg aggtggacga 540

```

```

ggcggctgcg gagtcccca gcttcctgag cctgcgcaag ggcgcctcgc tgagcaatgg      600
ccaggggtcc cgctgctgc atgtgggtcca gacgctgtac cccttcagct cagtcaccga      660
ggaggagctc aacttcgaga agggggagac catggagggtg attgagaagc cggagaacga      720
ccccgagtgg tggaaatgca aaaatgccc gggccagggtg ggcctcgtcc ccaaaaacta      780
cgtggtgggtc ctcagtgcg ggcctgccct gcaccctgcg cacgccccac agataagcta      840
caccgggccc tcgtccagcg ggcgcttcgc gggcagagag tggactactc ggaacgtgac      900
gcggcaccag gcgcagtgcg ccctcaacga gcggggcggtg gagggcgact tcctcattag      960
ggacagcgag tcctcgccca gcgactttctc cgtgtccctt aaagcgtcag ggaagaacaa     1020
acatttcaag gtgcagctcg tggacaatgt ctactgcatt gggcagcggc gcttccacac     1080
catggacgag ctggtggaac actacaaaaa ggcgcccatac ttcaccagcg agcacgggga     1140
gaagctctac ctgctcaggg ccctgcagtg acggcgcccc ggccccacac tcgcctcccg     1200
ggccccacgg tggagctgcc cgcccggcct tgtggcagag gctcctcccg cggggacggc     1260
cccgacgggt tctctg                                     1276

```

<210> 22

<211> 1577

<212> DNA

<213> NM_006214.2| Homo sapiens phytanoyl-CoA hydroxylase (Refsum disease) (PHYH), mRNA

```

<400> 22
gcccgtgctg gtaaatgggg cagaggccgg gaggggtggg ggttccccgc gccgcagcca      60
tggagcagct tcgcgccgcc gcccgctctgc agattgttct gggccacctc ggccgcccct     120
cggccggggc tgtcgtagct catccactt cagggactat ttcctctgcc agtttccatc     180
ctcaacaatt ccagtatact ctggataata atgttctaac cctggaacag agaaaatttt     240
atgaagaaaa tgggtttcta gtaatcaaaa atcttgtacc tgatgccgat attcaacgct     300
ttcggaatga gtttgaaaaa atctgcagaa aggagggtgaa accattagga ttaacagtaa     360
tgagagatgt gaccatttcg aaatccgaat atgctccaag tgagaagatg atcacgaagg     420
tccaggattt ccaggaagat aaggagctct tcagatactg cactctcccc gagattctga     480
aatatgtgga gtgcttcact ggacctaata ttatggccat gcacacaatg ttgataaaca     540
aacctccaga ttctggcaag aagacgtccc gtcaccccct gcaccaggac ctgcactatt     600
tccccttcag gccagcgat ctcatcgttt gcgcctggac ggcgatggag cacatcagcc     660
ggaacaacgg ctgtctgggt gtgctcccag gcacacacaa gggctccctg aagccccacg     720
attaccccaa gtgggagggg ggagttaaca aaatgttcca cgggatccag gactacgagg     780
aaaacaaggc ccgggtgcac ctggtgatgg agaagggcga cactgttttc ttccatcctt     840

```

```

tgctcatcca cggatctggt cagaataaaa cccagggatt ccggaaggca atttcctgcc      900
atttcgccag tgccgattgc cactacattg acgtgaaggg caccagtcaa gaaaacatcg      960
agaaggaagt tgtaggaata gcacataaat tctttggagc tgaaaatagc gtgaacttga    1020
aggatatttg gatgtttcga gctcgacttg tgaaaggaga aagaaccaat ctttgaaata    1080
gccatctgct ataactcttt caacagaaaa ccaaaaccaa acgaaatgtc taaggaaaat    1140
gttttcttaa tgagatgatg taaccttttc tatcacttgt taaaagcaga aaacatgtat    1200
caggtactta attgcataga gttagttttg cagcacaatg gtgttgcttt aatggaaaaa    1260
aaaaacagta aaagtgaat attactgttt taaggaaaac taatttaggg tggcagccaa    1320
taaagggtgg tggtgtctaa ttttaagtgt aaatcaattt ctttcattca gttagctctt    1380
tacccaagaa gaagtgaatg atttggagct taggggtatgt tttgtatccc ctttctgata    1440
aaccatttcc ctaccaattt tatgtcataa gagatttttt tcccccaaat ctagaacaat    1500
gtataataca ttcacatcta gtcaagggca taggaacggg gtcatggagt ccaaataaag    1560
tggatattcc tgctcggg                                     1577

```

<210> 23

<211> 3060

<212> DNA

<213> NM_004739.2| Homo sapiens metastasis-associated gene family, member 2 (MTA2), mRNA

```

<400> 23
tccggaagga ggcgaaccct gaggcggggc cggcaagcct tccctgcggc cggcagagcc      60
caacgactag tgggactccg cgggggaggc ggtagctgga gcctggctct ggcctggcag    120
gagccgagct tgttccgga gaagccgagc ggacgggggc cagcctcagc gtcctgggag    180
tgaggcgata gctgcggcgg cgacagcgcg ggccgggatg aaccgcgacg gctgaggcag    240
cggaggtgcc ggctgcgagg gcccagtgga gactccctcg aagcggcagc ccaacggtcg    300
gggctttgcc tcgagccgag ccctgcccc gcgagcctcc cggaccctt tgtgcggccg    360
gaggcgggcg cgggaacggc catggcgggc aacatgtacc ggggtgggaga ttacgtctat    420
tttgagaact cttccagcaa tccttacctg gttagacgga ttgaggagct caacaagact    480
gcaaatggaa atgtggaggc aaaggttgtc tgtcttttcc ggcgaggga catcttctagt    540
agcctcaaca gcctggctga tagtaatgcc agggagtttg aagaggaatc aaagcagcca    600
ggggtgtctg agcagcagcg ccatcaactg aagcaccggg aactttttct ttctcggcaa    660
tttgaatcat taccagccac ccacatacgg gggaaatgca gtgtgaccct cttgaatgag    720
acagatatct tgagccagta cctggaaaag gaggactgct tttttactc actgggtgtt    780
gaccccggtc agaagacact tctcgtgat cagggcgaga ttagagttgg ttgcaaatac    840

```

caagctgaga	tcccagatcg	cctagtagag	ggagaatctg	ataatcggaa	ccagcagaag	900
atggagatga	aggtctggga	cccagacaac	cctctcacag	accggcagat	cgaccagttt	960
cttgtggtgg	cccgagctgt	gggaaccttt	gcaagagccc	tagattgtag	cagctccatt	1020
cggcagccaa	gcttgcacat	gagtgacagct	gctgcctccc	gagatatcac	tctgtttcac	1080
gccatggata	ccttgcaaag	gaacggctac	gacctggcta	aggccatgtc	gaccctggta	1140
ccccagggag	gcccgggtgt	gtgtcgggat	gagatggagg	aatggtcagc	ctcagaggcc	1200
atgctatttg	aggaggccct	agagaagtat	gggaaggact	tcaatgatat	tcgccaggat	1260
tttctaccct	ggaagtcact	tgccagcata	gtccagtttt	attacatgtg	gaaaaccaca	1320
gaccggtata	ttcagcagaa	aagggttga	gctgctgaag	cagacagcaa	actgaaacag	1380
gtctacattc	ccacctacac	taagccaaac	cctaaccaga	tcatttctgt	gggttcaaaa	1440
cctggcatga	atggggctgg	atttcagaag	ggcctgactt	gtgagagtgt	ccacaccaca	1500
cagtctgctc	agtggatgct	ctggggccca	cctaacatgc	agtgccgcct	ctgtgcttcc	1560
tgttggatct	actggaagaa	gtatggggga	ctgaagaccc	caactcagct	tgagggggcc	1620
actcggggca	ccacggagcc	acactcaagg	ggtcatttat	ccagacctga	agctcaaagt	1680
ctctctcctt	acacaaccag	cgccaacagg	gccaaagctac	tggctaagaa	cagacaaact	1740
ttcctgcttc	agaccacaaa	gctgacctgt	cttgccagac	gcatgtgcag	ggacctatta	1800
cagccaagga	gggccgcccc	acggccttat	gctcctatca	atgccaatgc	catcaaagca	1860
gagtgtcca	ttcgacttcc	taaggccgcc	aagactccat	tgaagattca	ccctctggtg	1920
cggctgcccc	tggcaactat	cgtcaaagat	ctggtggccc	aggcaccctt	gaaacaaaaa	1980
acacctcggg	gtaccaagac	accgatcaac	agaaaccagc	tgtcccagaa	ccggggactg	2040
gggggcatta	tggtgaaacg	ggcctatgag	actatggcag	gggcaggggt	tcctttctct	2100
gccaatggaa	ggcctctggc	ttcaggggatt	cgttcaagct	cacagccagc	agccaagcgt	2160
cagaaactaa	acccagctga	tgcccccaat	cctgtggtgt	ttgtggccac	aaaggatacc	2220
agggccctac	ggaaggctct	gacctatctg	gaaatgcggc	gagctgctcg	ccgacccaac	2280
ttgcccctga	aggtgaagcc	aacgctgatt	gcagtgcggc	cccctgtccc	tctacctgca	2340
ccctcacatc	ctgccagcac	caatgagcct	attgtcctgg	aggactgagc	acctgtgggg	2400
aagggaggtg	ggctgagagg	tagaggggtg	atgccagggg	cacccaaacc	tcccttcctt	2460
ttcgtgtcga	agggagtgag	gagtgaatta	aggaagagag	caagtgagtg	tgtgtccctg	2520
gaggggttgg	gcgccctctg	gtgttaccac	ctcgagactt	gtctcatgcc	tccatgcttg	2580
ccgatggagg	acagactgca	ggaacttggc	ccatgtggga	acctagcctg	ttttgggggg	2640
taggaccac	agatgtcttg	gacagttttg	gggggagggg	tttttaattt	tttaaaagtt	2700
ttgcctccct	ttgtgaaagg	ggatggggag	gggaagagta	aacagataac	aggtggtggt	2760
acctggttgg	gggagggggg	cgtgcactgc	catgtctttt	tttttttttt	tttttttttt	2820

tttcctaatt ggggggtttct ctttctgtcc ggtgtccgga ctttcctaatt tggagtttga 2880
 ggcccctaag ctggcatcaa ccccaggcca cgctcgctct ttccttcctt cccctccccc 2940
 tctgcctttt gtacgccagt tctcagaaat aaagatcttt tgtccgtttt tttaacctcg 3000
 gattctgtaa ttggttctta tagtaacaaa taaaaagctg ttttcttcag ctctctcctgg 3060

<210> 24

<211> 2407

<212> DNA

<213> NM_001091.1| Homo sapiens amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), mRNA

<400> 24
 gatcagctta agggcaaagg ctggaagcag agcgaactgg gagcagagca cacagagccg 60
 tggagcgaga gatgccggcc ctgggctggg ccgtggctgc catcctgatg ctgcagacgg 120
 ccatggcgga gccctccccg gggactctgc ccaggaaggc aggggtgttt tcagacctaa 180
 gcaaccaaga gctgaaggca gtgcacagct tcctctggtc caagaaggag ctgaggctgc 240
 agccctccag taccaccacc atggccaaga acaccgtgtt tctcatcgag atgctgctgc 300
 ccaagaagta ccatgtgctg aggtttcttg ataaagggtga aaggcatcct gtgcggaag 360
 cccgtgccgt catcttcttt ggtgaccagg agcatcccaa tgtcaccgag ttgtgctgtgg 420
 ggcccctgcc agggccctgc tacatgcgag cactgtcccc caggcctggg taccagtcct 480
 cctgggcatac gaggcccatc tccacagcag agtatgccct cctctaccac accctgcagg 540
 aagccaccaa gccctgcat cagttcttcc tcaataccac aggtcttctca ttccaagact 600
 gccatgacag atgcctggcc ttcaccgatg tggccccccg ggggtgtggct tctggccagc 660
 gccgcagttg gcttatcata cagcgctatg tagaaggcta ctttctgcac cccactgggc 720
 tggagctcct cgtggatcat gggagcacag atgctgggca ctgggccgtg gagcaggtgt 780
 ggtacaacgg gaagtcttat gggagcccag aggaactggc tcggaagtat gcagatggag 840
 aggtggacgt ggtggtcctg gaggacccgc tgcctggggg caaggggcat gacagcacag 900
 aggagccgcc cctcttctcc tcccacaagc cccgcgggga cttccccagc cccatccatg 960
 tgagcggccc ccgcttggtc cagccccacg gccctcgctt caggctggag ggcaacgctg 1020
 tgctctacgg cggtggagc tttgccttcc ggctgcgtc ctctccggg ctgcaggtcc 1080
 tgaacgtgca cttcggcgga gagcgattg cctatgaggt cagcgtgcaa gaggcagtgg 1140
 cgctgtatgg aggacacaca cctgcaggca tgcagaccaa gtacctgat gtcggctggg 1200
 gcctgggcag cgtcactcat gagttagccc ccggcatcga ctgcccgag accgccacct 1260
 tcctggacac tttccactac tatgatgccg atgacccggg ccattatccc cgagccctct 1320
 gcctctttga aatgccaca ggggtgcccc ttcggcgga ctttaattcc aactttaag 1380


```

gtggcttcaa cttctatgcg gggctgaagg gccagggtgct ggtgctgcgg acaacttcaa 1440
ctgtctacaa ttatgattac atttgggact ttatcttcta cccaacggg gtgatggagg 1500
ccaagatgca tgccactggc tacgtccacg ccaccttcta ccccccgag gggctgcgcc 1560
acggcactcg cctgcacacc cacctgattg gcaacataca cactcacttg gtgcactacc 1620
gcgtagacct ggatgtggca ggcaccaaga acagcttcca gacactgcag atgaagctag 1680
aaaacatcac caacccttg agcccaagac accgcgtggc ccagccaact ctggagcaga 1740
cgcagtactc ctgggagcgc caggcggcct tccgcttcaa aaggaagctg cccaagtacc 1800
tgctctttac cagccccag gagaaccctt ggggccacaa gcgcagctac cgctgcaga 1860
tccactccat ggccgaccag gtgctgcccc caggctggca ggaggagcag gccatcacct 1920
gggcaaggta cccctggca gtgaccaagt accgggagtc ggagctgtgc agcagcagca 1980
tctaccacca gaacgacccc tggcaccgc ccgtggctctt tgagcagttt cttcacaca 2040
acgagaacat tgaaaatgag gacctgggtg cctgggtgac ggtgggcttc ctgcacatcc 2100
cccactcaga ggacattccc aacacagcca cacctgggaa ctccgtgggc ttctgtctcc 2160
ggccattcaa cttcttccca gaggaccctt ccctggcatc cagagacact gtgatcgtgt 2220
ggcctcggga caacggcccc aactacgtcc agcgtggat ccctgaggac agggactgct 2280
cgatgcctcc cccttttagc tacaatggga cctatagacc tgtgtgacca gccccagtt 2340
cctccccag ttctccag gaagcccagg agcctcactg gggcagacaa taaactctca 2400
gagcctc 2407

```

<210> 25

<211> 1094

<212> DNA

<213> NM_000712.3| Homo sapiens biliverdin reductase A (BLVRA), mRNA

<400> 25

```

ccgccccggt ccgcaaagcc ggtggcgccc ggaggctgca cggagagcgg tgcccgcgtc 60
agtgaccgaa ggaagagacc aagatgaatg cagagcccga gaggaagttt ggctgggtgg 120
tggttggtgt tggccgagcc ggctccgtgc ggatgaggga cttgcggaat ccacaccctt 180
cctcagcgtt cctgaacctg attggcttcg tgctcgagaag ggagctcggg agcattgatg 240
gagtcacgca gatttctttg gaggatgctc tttccagcca agagggtggag gtcgcctata 300
tctgcagtga gagctccagc catgaggact acatcaggca gttccttaat gctggcaagc 360
acgtccttgt ggaatacccc atgacactgt cattggcggc cgctcaggaa ctgtgggagc 420
tggttgagca gaaaggaaaa gtcttgacg aggagcatgt tgaactcttg atggaggaat 480
tcgctttcct gaaaaaagaa gtggtgggga aagacctgct gaaagggtcg ctctcttca 540
cagctggccc gttggaagaa gagcggtttg gcttccctgc attcagcggc atctctcgcc 600

```

```

tgacctggct ggtctccctc tttggggagc tttctcttgt gtctgccact ttggaagagc 660
gaaaggaaga tcagtatatg aaaatgacag tgtgtcttga gacagagaag aaaagtccac 720
tgtcatggat tgaagaaaaa ggacctggct taaaacgaaa cagatattta agcttccatt 780
tcaagtctgg gtccttggag aatgtgccaa atgtaggagt gaataagaac atatttctga 840
aagatcaaaa tatatttgtc cagaaactct tgggccagtt ctctgagaag gaactggctg 900
ctgaaaagaa acgcatcctg cactgcctgg ggcttgcaga agaaatccag aaatattgct 960
gttcaaggaa gtaagaggag gaggtgatgt agcacttcca agatggcacc agcatttggt 1020
tcttctcaag agttgaccat tatctctatt cttaaaatta aacatgttgg ggaaa caaga 1080
aaaaaaaaa aaaa 1094

```

<210> 26

<211> 5546

<212> DNA

<213> NM_000933.2| Homo sapiens phospholipase C, beta 4 (PLCB4), transcript variant 1, mRNA

```

<400> 26
aggaaaagac aatttctctc tgattcagaa tcctgaaaat gtgatctccc ttaaa aagag 60
gacagtgctg ctgtgagttt gacgaagtgg acatcacctg cagtcagtcc agagctgccc 120
agtcttgaat ataatcatgg ccaaacctta tgaatttaac tggcagaagg aagttccctc 180
ctttttgcaa gaaggaacag tttttgacag atacgaggag gaatcctttg tgtttgaacc 240
caactgcctc ttcaaagtgg atgagtttgg cttctttctg acatggagaa gtgaa ggcaa 300
ggaaggacag gtgctagaat gctccctcat caacagtatt cggtcgggag ccata ccaaa 360
ggatcccaaa atcttggctg ctcttgaagc tgttggaaaa tcagaaaatg atctggaagg 420
gcggatagtt tgtgtctgca gtggcacaga tctagtgaac attagtttta cctacatggt 480
ggctgaaaat ccagaagtaa ctaagcaatg ggtagaaggc ctgagatcaa tcata cacia 540
cttcagggcc aacaacgtca gtccaatgac atgcctcaag aaacactgga tgaaa ttggc 600
atztatgacc aacacaaatg gtaaaattcc agttaggagt attactagaa catttgcatc 660
gggaaaaaca gaaaaggatga tctttcaagc actcaaggag ttaggtcttc ccagtggaaa 720
gaatgatgaa attgagccca cagcattttc ttatgaaaag ttctatgaac tgaca caaaa 780
gatttgtcct cggacagata tagaagatct tttcaaaaaa atcaatggag acaaaa actga 840
ttatttaacg gtagaccaat tagtgagctt tctaaatgaa catcaacgag atcctcgatt 900
gaatgaaatt ttatttccat tttatgatgc caaaagggca atgcagatca ttgagatgta 960
tgaacctgat gaagatttga agaaaaaagg ccttatatca agtgatgggt tttgcagata 1020
tctgatgtca gatgaaaacg cccagctctt cctagatcgt ttagaacttt accaagaaat 1080

```

ggaccatcct	ctggctcact	acttcatcag	ttcttcccat	aacacttatc	tcactggcag	1140
acagttcggc	gggaagtctt	cggtagaaat	gtacagacag	gttctcctgg	ctggttgcag	1200
atgtgttgaa	cttgactgct	gggatggaaa	aggtgaagac	caagaaccaa	taataactca	1260
tggaaaagca	atgtgtacag	atatcctttt	taaggatgta	attcaagcca	tcaaggaaac	1320
tgcatttgtc	acatcagaat	atcctgtaat	tctctccttt	gaaaatcact	gcagcaaata	1380
tcaacagtac	aagatgtcca	aatattgcga	agatctattt	ggggatctcc	tgttgaaaca	1440
agcacttgaa	tcacatccac	ttgaaccagg	cagggctttg	ccatcccca	atgacctcaa	1500
aagaaaaata	ctcataaaaa	acaagcggct	gaaacctgaa	gttgaaaaaa	aacagctgga	1560
agctttgaga	agcatgatgg	aagctggaga	atctgcctcc	ccagcaaaca	tcttagagga	1620
cgataatgaa	gaggagatcg	aaagtgtgta	ccaagaggag	gaagctcacc	ccgaattcaa	1680
atttggaat	gaactttctg	ctgatgactt	gggtcacaa	gaagctgttg	caaatagcgt	1740
caagaagggc	ctggctcactg	tagaagatga	gcaggcgtgg	atggcatctt	ataaatatgt	1800
aggtgctacc	actaatatcc	atccatattt	gtccacaatg	atcaactacg	cccagcctgt	1860
aaagtttcaa	ggtttccatg	tggcagaaga	acgcaatatt	cattataaca	tgtcttcttt	1920
taatgaatca	gtcgggtctg	gctacttgaa	gacacatgca	attgaatttg	tcaattataa	1980
caaacggcaa	atgagtcgca	tttaccacca	gggaggccga	gtcgattcca	gtaattacat	2040
gcctcagatt	ttctggaacg	ctggctgcca	gatggtttca	ctgaactatc	aaacccaga	2100
tttagcgatg	caattgaatc	agggaaaatt	tgagtataat	ggatcgtgcg	ggtaccttct	2160
caaaccagat	ttcatgaggc	ggcctgatcg	aacatttgac	cccttctctg	aaactcctgt	2220
tgatggtggt	attgcagcca	cttgctcagt	gcagggtata	tcagggtcaat	tcttatcaga	2280
taagaaaatt	ggcacctacg	tagagggtgga	tatgtatggg	ttgcccactg	acaccatacg	2340
taaggaattc	cgaactcgca	tggttatgaa	taatggactc	aatccagttt	acaatgaaga	2400
gtcatttgta	tttcggaagg	tgatcctgcc	ggacctggct	gtcttgagaa	tagctgtgta	2460
tgatgataac	aacaagctga	ttggccagag	gatcctcccg	cttgatggcc	tccaagccgg	2520
atatcgacac	atttcccttc	gaaatgaggg	aaataaacca	ttatcactac	caacaatttt	2580
ctgcaatatt	gttcttaaaa	catatgtgcc	tgatggattt	ggagatatcg	tggatgcttt	2640
atcagatcca	aagaaatttc	tctcaattac	agaaaagaga	gcagaccaa	tgagagctat	2700
gggcattgaa	actagtgaca	tagccgacgt	gcccagtgac	acttccaaaa	atgacaagaa	2760
aggaaaggcc	aacaccgcca	aagcaaattg	gaccctcag	agtagctctg	agctcagacc	2820
aaccaccacg	gctgccctgg	cctctggtgt	ggaagccaag	aaaggtattg	aacttatccc	2880
tcaagtaagg	atagaagact	taaagcagat	gaaggcttac	ttgaagcatt	taaagaaaca	2940
gcagaaggag	ctaaattctt	taaagaagaa	acatgcaaag	gaacacagta	ccatgcagaa	3000
gttacactgc	acgcaagttg	acaaaattgt	ggcacagtat	gacaaagaga	agtcgactca	3060

tgagaaaatc	ctagagaagg	caatgaagaa	gaagggggga	agtaattgtc	tcgaaatgaa	3120
aaaagaaaca	gaaatcaaaa	ttcagacgct	gacatcagat	cacaaatcta	aggtcaaaga	3180
gattgtagca	cagcacacaa	aggaatggtc	agaaatgatc	aatacccaca	gtgctgagga	3240
gcaagaaatc	cgagacctgc	acctcagcca	gcagtgtgag	ctgctgaaaa	agctactcat	3300
caatgcccac	gagcagcaaa	cccagcagct	gaaactgtcc	catgacaggg	aaagcaagga	3360
aatgcgagca	caccaggcta	agatttctat	ggaaaatagc	aaagccatca	gccaagataa	3420
atctatcaag	aataaagcag	aacgggaaag	gcgagtcagg	gagttaaaca	gcagcaacac	3480
taaaaagttt	ctggaagaaa	gaaagagact	tgccatgaag	cagtccaaag	aaatggatca	3540
gttgaaaaaa	gtccagcttg	aacatctaga	attcctagag	aaacagaatg	agcagctttt	3600
gaaatcctgt	catgcagtgt	cccaaacgca	aggcgaagga	gatgcagcag	atggtgaaat	3660
tggaagccga	gatggaccgc	agaccagcaa	cagtagtatg	aaactccaaa	atgcaaactg	3720
aagcagcaaa	cccacaaagc	atcaaaagac	tcactcacia	acttctgaac	acaaactcca	3780
tggaatgaaag	ctgtttatatt	tgtttccttt	atgtgtaaac	aagatgatata	ctgaaaccag	3840
agagacttgg	aatgtctgac	tgacttctat	ttaacagctt	gagtattgca	tttccttggc	3900
caaacaaaaa	tagctacaaa	tccacaaaaa	tttactattc	cagtaaggca	gagtccaacc	3960
attgataata	caacttaaac	atgtttgcta	taaaatacca	tcacaagtaa	atgagcttgg	4020
tgtgaacaac	tctcctttgt	gatgccttag	gacatgtttg	aactgcagca	aaaaacaaaa	4080
acaaaaaaca	gtgcattagc	aatttcatag	caagtgcagc	cactaggaaa	agaaaactct	4140
gtctacaagt	ttattagcag	aagtgggtgg	ctgctagaca	aataattttg	caaaattttt	4200
ctacatctaa	gttacctcat	cagtaagtgc	catgtctcta	ccatgccatc	agaggctaata	4260
ttcctgtaaa	agttgtggaa	attgttagaa	caatagaaaa	atagagcagt	gtatgtgtgc	4320
caaaactcat	cattactcaa	aggagaactg	tgtaggcac	atttaagaaa	gtttacatct	4380
gacattgctt	tataggaatt	gtttctgcag	attccggata	ttataattca	caccataaag	4440
attgtgaagt	ggttattggc	aaacgtttgt	aaatgtgacc	atgtataaag	tattttatact	4500
ctttaattca	cactgttaga	gagcaaaatc	atctaagtat	tgccacatga	caagattagt	4560
aaacaggaat	actagaacta	tgtttgcagc	atacacaagc	accaataaag	actaatccat	4620
acacagttaa	cctaattgcca	aataaatact	ggttaaataa	atgtatggca	cagaatataa	4680
tttgactatc	aagactttta	gcataatgaa	aaaccctctc	tctatatata	tatgtgtata	4740
tgaattatgt	gggcattctt	gatacttcaa	gttctagttt	gaaaaaaata	cataactaat	4800
ttaattttac	acaaaaatat	ttatgcagat	tttcagaatt	tcatatcagg	aatgacctt	4860
tttatgtctg	ttaaatatca	aaacaatttg	ctacagtgtt	aatctgcagc	gtctttaagc	4920
ctgctgtagt	tgagttgcag	acagtgcagc	aaaaagtatt	ccgctgggaa	ttgagccatg	4980
ccaccaaaagc	caagaggagc	gcatggaaac	ccggtagtct	agaactaatc	agattactga	5040
ttttagggca	cagcaccaga	tgaattgttg	tatatgcttg	taaaaattga	ttctgtgtgt	5100

```

tcctctgaac aaagcggaga aaatgatgat accatcaata ttgaaattaa acttccaact 5160
tctctaataa aaaattaaaa cacgcataac actcgtcaag agtatttgct cccaagacac 5220
attctagcaa atgttttgcc tttttcatat acatgatatc atcgttattt tcaaaggggg 5280
cttattaata ccctcagcat gtttttcacc caaatgatgc aaaacatgca gattctagtt 5340
gacttcagtt gtaatagact tgtttttctc ctatttatga tttgaagtgg attctgtaaa 5400
atatctcttg ttcttagttt ctttatctgt aaaacagtgg agttagacta catatctttt 5460
ggcactaaca tctcatgaaa aattatgggt aataaaatat caccacattt ggattgccaa 5520
ttttcaaaaa aaaaaaaaaa aaaaaa 5546

```

<210> 27

<211> 2545

<212> DNA

<213> NM_002416.1| Homo sapiens chemokine (C-X-C motif) ligand 9 (CXCL9), mRNA

```

<400> 27
atccaataca ggagtgactt ggaactccat tctatcacta tgaagaaaag tgggtgttctt 60
ttcctcttgg gcatcatctt gctggttctg attggagtg c aaggaacccc agtagtgaga 120
aagggtcgct gttcctgcat cagcaccaac caaggggacta tccacctaca atccttgaaa 180
gaccttaaac aatttgcccc aagcccttcc tgcgagaaaa ttgaaatcat tgctacactg 240
aagaatggag ttcaaacatg tctaaacca gattcagcag atgtgaagga actgattaaa 300
aagtgggaga aacaggtcag ccaaaagaaa aagcaaaaga atgggaaaaa acatcaaaaa 360
aagaaagttc tgaaagttcg aaaatctcaa cgttctcgtc aaaagaagac tacataagag 420
accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca 480
ttccaaagga ggatggcata taatacaaag gcttattaat ttgactagaa aatttaaaac 540
attactctga aattgtaact aaagttagaa agttgatttt aagaatcaa acgttaagaa 600
ttgttaaagg ctatgattgt ctttgttctt ctaccacca ccagttgaat ttcacatgc 660
ttaaggccat gatcttagca ataccatgt ctacacagat gttcaccaa ccacatccca 720
ctcacaacag ctgcctggaa gagcagccct aggcttcac gtactgcagc ctccagagag 780
tatctgaggc acatgtcagc aagtcctaag cctgttagca tgctgggtgag ccaagcagtt 840
tgaaattgag ctggacctca ccaagctgct gtggccatca acctctgtat ttgaatcagc 900
ctacaggcct cacacacaat gtgtctgaga gattcatgct gattgttatt gggatatcacc 960
actggagatc accagtgtgt ggctttcaga gcctcctttc tggctttgga agccatgtga 1020
ttccatcttg cccgctcagg ctgaccactt tatttctttt tggtcccctt tgcttcattc 1080
aagtcagctc ttctccatcc taccacaatg cagtcgcttt cttctctcca gtgcacctgt 1140

```

```

catatgctct gatttatctg agtcaactcc tttctcatct tgtccccaac accccacaga 1200
agtgttttct tctcccaatt catcctcact cagtccagct tagttcaagt cctgcctctt 1260
aaataaacct ttttggacac acaaattatc ttaaaactcc tgtttcactt ggttcagtac 1320
cacatgggtg aacactcaat ggttaactaa ttcttgggtg tttatcctat ctctccaacc 1380
agattgtcag ctctttgagg gcaagagcca cagtatatct ccctgtttct tccacagtgc 1440
ctaataatac tgtggaacta ggttttaata attttttaat tgatgttggt atgggcagga 1500
tggcaaccag accattgtct cagagcaggt gctggctctt tcctggctac tccatgttg 1560
ctagcctctg gtaacctctt acttattatc ttcaggacac tcactacagg gaccagggat 1620
gatgcaacat ccttgtcttt ttatgacagg atgtttgctc agcttctcca acaataagaa 1680
gcacgtggta aaacacttgc ggatattctg gactgttttt aaaaaatata cagtttaccg 1740
aaaatcatat aatcttacia tgaaaaggac tttatagatc agccagtgc caaccttttc 1800
ccaaccatac aaaaattcct tttcccgaag gaaaagggtt ttctcaataa gcctcagctt 1860
tctaagatct aacaagatag ccaccgagat ctttatcgaa actcatttta ggcaaatatg 1920
agttttattg tccgtttact tgtttcagag tttgtattgt gattatcaat taccacacca 1980
tctcccatga agaaaggga cgggtgaagta ctaagcgcta gaggaagcag ccaagtcggt 2040
tagtggaagc atgattgggtg ccaggttagc ctctgcagga tgtggaaacc tccttcagg 2100
ggaggttcag tgaatttgtt aggagagggt gtctgtggcc agaattttaa cctataactca 2160
ctttcccaa ttgaatcact gctcacactg ctgatgattt agagtgtgt cgggtggaga 2220
tcccacccga acgtcttatc taatcatgaa actccctagt tccttcatgt aacttccctg 2280
aaaaatctaa gtgtttcata aatttgagag tctgtgacct attaccttg catctcacag 2340
gtagacagta tataactaac aaccaaagac tacatattgt cactgacaca cacgttataa 2400
tcatttatca tatatataca tacatgcata cactctcaaa gcaaataatt tttcacttca 2460
aaacagtatt gacttgtata ccttghtaatt tgaaatattt tctttgttaa aatagaatgg 2520
tatcaataaa tagaccatta atcag 2545

```

<210> 28

<211> 1144

<212> DNA

<213> NM_005859.2| Homo sapiens purine-rich element binding protein A (PURA), mRNA

```

<400> 28
cgactgaggc ggcgggcgga gcggcaggcg gcggcggcgc ggcagcggag cgcagcatca 60
tggcggaccg agacagcggc agcagcagg gtggtgcggc gctgggttcg ggcggctccc 120
tggggcacc cggctcgggc tcaggctccg gcgggggcgg tggtggcggc gggggcggcg 180

```

```

gcggcagtg  cggcggcggc  ggcggggccc  caggggggct  gcagcacgag  acgcaggagc  240
tggcctccaa  gcggggtggac  atccagaaca  agcgttctta  cctggacgtg  aagcagaacg  300
ccaagggccg  cttcctgaag  atcgccgagg  tgggcgcggg  cggcaacaag  agccgcctta  360
ctctctccat  gtcagtggcc  gtggagtcc  gcgactacct  gggcgacttc  atcgagcact  420
acgcgcagct  gggccccagc  cagccgccgg  acctggccca  ggcgcaggac  gagccgcgcc  480
gggcgctcaa  aagcgagttc  ctggtgcgcg  agaaccgcaa  gtactacatg  gatctcaagg  540
agaaccagcg  cggccgcttc  ctgcgcatcc  gccagacggt  caaccggggg  cctggcctgg  600
gctccacgca  gggccagacc  attgcgctgc  ccgcgcaggg  gctcatcgag  ttccgtgacg  660
ctctggccaa  gctcatcgac  gactacggag  tggaggagga  gccggccgag  ctgcccgagg  720
gcacctcctt  gactgtggac  aacaagcgct  tcttcttcga  tgtgggctcc  aacaagtacg  780
gcgtgtttat  gcgagtgagc  gaggtgaagc  ccacctatcg  caactccatc  accgtgccct  840
acaagggtgtg  ggccaagttc  ggacacacct  tctgcaagta  ctcggaggag  atgaagaaga  900
ttcaagagaa  gcagagggag  aagcgggctg  cctgtgagca  gcttcaccag  cagcaacagc  960
agcagcagga  ggagaccgcc  gctgccaccc  tgctactgca  gggtgaggaa  gaaggggaag  1020
aagattgatc  aaactgaatg  aaacccccac  acacacacac  atgcatacac  acacacacac  1080
agccacacac  acagaaaata  tactgtaaag  aaagagagaa  aataaaaagt  taaaaagtta  1140
aaaa  1144

```

<210> 29

<211> 1575

<212> DNA

<213> NM_014298.3| Homo sapiens quinolinate phosphoribosyltransferase (nicotinate-nucleotide pyrophosphorylase (carboxylating)) (QPRT), mRNA

```

<400> 29
tcccaccccc  agcctggggc  ctctgggagc  cttggtcctg  agcagccaac  acaccagccc  60
agacagctgc  aagtcaccat  ggacgctgaa  ggcctggcgc  tgctgctgcc  gcccgtcacc  120
ctggcagccc  tgggtggacag  ctggctccga  gaggactgcc  cagggctcaa  ctacgcagcc  180
ttggctcagcg  gggcaggccc  ctcgcaggcg  gcgctgtggg  ccaaattccc  tgggggtactg  240
gcagggcagc  ctttcttcga  tgccatattt  acccaactca  actgccaagt  ctcctgggttc  300
ctccccgagg  gatcgaagct  ggtgccggtg  gccagagtgg  ccgaggtccg  gggccctgcc  360
cactgcctgc  tgctggggga  acgggtggcc  ctcaacacgc  tggcccgtg  cagtggcatt  420
gccagtgctg  ccgccgctgc  agtggaggcc  gccagggggg  ccggctggac  tgggcacgtg  480
gcaggcacga  ggaagaccac  gccaggcttc  cggctgggtg  agaagtatgg  gctcctgggtg  540
ggcggggccg  cctcgcaccg  ctacgacctg  ggagggtg  tgatgggtgaa  ggataaccat  600

```

```

gtggtggccg ccggtggcgt ggagaaggcg gtgcgggcg ccagacaggc ggctgacttc 660
gctctgaagg tggaagtgga atgcagcagc ctgcaggagg ccgtgcaggc agctgaggct 720
ggtgccgacc ttgtcctgct ggacaacttc aagccagagg agctgcaccc cacggccacc 780
gtgctgaagg ccagattccc gagtgtggct gtggaagcca gtgggggcat caccctggac 840
aacctcccc agttctgcgg gccgcacata gacgtcatct ccatggggat gctgaccag 900
gcggccccag cccttgattt ctccctcaag ctgtttgcc aagagggtggc tccagtggcc 960
aaaatccact agtcctaaac cggaagagga tgacaccggc catgggttaa cgtggctcct 1020
caggaccctc tgggtcacac atctttaggg tcagtggcca atggggcaca tttggcacta 1080
gcttgagccc aactctggct ctgccacctg ctgctcctgt gacctgtcag ggctgacttc 1140
acctctgctc atctcagttt cctaactctgt aaaatgggtc taataaagga tcaaccacat 1200
ggggttctgc ggtgataatg agcacatagt gaggggctcag caaatgtcag aagttacctg 1260
ggacagccgg gcacgatggc tcacacctgt aatcccagca ctttgggagg ctgaggcggg 1320
aagatcactt gagttcagga gtttgagacc agcctggcca acatggtgaa accccatctc 1380
tacaaaaaat agaagaatta gctgggtgtg gtggcacgcg cctgtaatcc cagctactta 1440
ggaggctgag gcaggagaat cgcttgaacc caggaagtgg aggttgagct gagctgatgg 1500
tgccactgca ctccagcctg ggtgatagag cgagactctg tctccaaaga agaaaaaaaa 1560
aaaaaaaaaa aaaaaa 1575

```

<210> 30

<211> 768

<212> DNA

<213> NM_004585.2| Homo sapiens retinoic acid receptor responder (tazarotene induced) 3 (RARRES3), mRNA

```

<400> 30
ccttcagcat aaaagctgat ccacaaacaa gaggagcacc agacctcctc ttggcttcga 60
gatggcttcg ccacaccaag agcccaaacc tggagacctg attgagattt tccgccttgg 120
ctatgagcac tgggccctgt atataggaga tggctacgtg atccatctgg ctctccaag 180
tgagtacccc ggggctggct cctccagtgt cttctcagtc ctgagcaaca gtgcagaggt 240
gaaacggggg cgcttgaag atgtggtggg aggctgttgc tatcgggtca acaacagctt 300
ggaccatgag taccaaccac ggcccggtga ggtgatcatc agttctgcga aggagatggt 360
tggtcagaag atgaagtaca gtattgtgag caggaactgt gagcactttg tcgccagct 420
gagatatggc aagtcccgt gtaaacaggt ggaaaaggcc aaggttgaag tcggtgtggc 480
cacggcgctt ggaatcctgg ttgttgctgg atgctctttt gcgattagga gatacaaaaa 540
aaaagcaaca gcctgaagca gccacaaaat cctgtgttag aagcagctgt ggggggtcca 600

```



```

gtggagatga gcctccccc tgcctccagc agcctgaccc tcgtgccctg tctcaggcgt    660
tctctagatc ctttcctctg tttccctctc tcgctggcaa aagtatgata taattgaaac    720
aagactgaag gatcaataaa cagccatctg ccccttcaaa aaaaaaaaaa    768

```

<210> 31

<211> 696

<212> DNA

<213> NM_002984.1| Homo sapiens chemokine (C-C motif) ligand 4 (CCL4), mRNA

```

<400> 31
ttcccccccc ccccccccc ccccgcccga gcacaggaca cagctggggt ctgaagcttc    60
tgagttctgc agcctcacct ctgagaaaac ctcttttcca ccaataccat gaagctctgc    120
gtgactgtcc tgtctctcct catgctagta gctgccttct gctctccagc gctctcagca    180
ccaatggggt cagaccctcc caccgcctgc tgcttttctt acaccgcgag gaagcttcct    240
cgcaactttg tggtagatta ctatgagacc agcagcctct gctcccagcc agctgtggta    300
ttccaaacca aaagaagcaa gcaagtctgt gctgatccca gtgaatcctg ggtccaggag    360
tacgtgtatg acctggaact gaactgagct gctcagagac aggaagtctt caggggaagg    420
cacctgagcc cggatgcttc tccatgagac acatctcctc catactcagg actcctctcc    480
gcagttcctg tcccttctct taatttaata ttttttatgt gccgtgttat tgtattaggt    540
gtcattttcca ttatttatat tagtttagcc aaaggataag tgtcctatgg ggatggtcca    600
ctgtcactgt ttctctgctg ttgcaaatac atggataaca catttgattc tgtgtgtttt    660
ccataataaa actttaaaat aaaatgcaga cagtta    696

```

<210> 32

<211> 3338

<212> DNA

<213> NM_001455.2| Homo sapiens forkhead box O3A (FOXO3A), transcript variant 1, mRNA

```

<400> 32
gcgcgaggcc gtcgattcgc tcgcggctcc atcgcggcct ggccgggggg cgggtgtctgc    60
tgccgagcgg tcgctggccg cacgtcttca ggtcctcctg ttcctgggag gcgggagcgg    120
caggactggg aggtggcggc agcgggagcag gactcgccga ggacgggggt ccggcccggg    180
ataaccaact ctcttctctt cttcttttgt gcttccccag gcggcgggcg cggcgcccgg    240
gagccggagc cttcgcgggc tccacgtccc tccccgctg cccccgccc cggcgcgaga    300
ggagagcgcg agagccccag ccgcgggagc gcgggagcgg aagatggcag aggcaccggc    360

```

ttccccggcc	ccgctctctc	cgctcgaagt	ggagctggac	ccggagttcg	agccccagag	420
ccgtcccgca	tcctgtacgt	ggcccctgca	aaggccggag	ctccaagcga	gccctgccaa	480
gccctcgggg	gagacggccg	ccgactccat	gatccccgag	gaggaggacg	atgaagacga	540
cgaggacggc	gggggacggg	ccggctcggc	catggcgatc	ggcggcggcg	gcgggagcgg	600
cacgctgggc	tccgggctgc	tccttgagga	ctcggccccg	gtgctggcac	ccggagggca	660
agaccccggg	tctggggccag	ccaccgcggc	gggcgggctg	agcgggggta	cacaggcgct	720
gctgcagcct	cagcaaccgc	tgccaccgcc	gcagccgggg	gcggctgggg	gctccgggca	780
gccgaggaaa	tgttcgtcgc	ggcggaacgc	ctggggaaac	ctgtcctacg	cggacctgat	840
caccgcgcgc	atcgagagct	ccccggacaa	acggctcact	ctgtcccaga	tctacgagtg	900
gatggtgcgt	tgcgtgccct	acttcaagga	taagggcgac	agcaacagct	ctgccggctg	960
gaagaactcc	atccggcaca	acctgtcact	gcatagtcca	ttcatgcggg	tccagaatga	1020
gggaactggc	aagagctctt	ggtggatcat	caaccctgat	ggggggaaga	gcggaaaagc	1080
cccccggcgg	cgggctgtct	ccatggacaa	tagcaacaag	tataccaaga	gccgtggccg	1140
cgcagccaag	aagaaggcag	ccctgcagac	agcccccgaa	tcagctgacg	acagtccctc	1200
ccagctctcc	aagtggcctg	gcagccccac	gtcacgcagc	agtgatgagc	tggatgcgtg	1260
gacggacttc	cgttcacgca	ccaattctaa	cgccagcaca	gtcagtggcc	gcctgtcgcc	1320
catcatggca	agcacagagt	tggatgaagt	ccaggacgat	gatg'gcctc	tctcgcccat	1380
gctctacagc	agctcagcca	gcctgtcacc	ttcagtaagc	aagccgtgca	cgggtggaact	1440
gccacggctg	actgatatgg	caggcaccat	gaatctgaat	gatgggctga	ctgaaaacct	1500
catggacgac	ctgctggata	acatcacgct	cccgccatcc	cagccatcgc	ccactggggg	1560
actcatgcag	cggagctcta	gcttcccgtg	taccaccaag	ggctcggggc	tgggctcccc	1620
aaccagctcc	tttaacagca	cgggtgttcg	accttcattc	ctgaactccc	tacgccagtc	1680
tcccatgcag	accatccaag	agaacaagcc	agctaccttc	tcttccatgt	cacactatgg	1740
taaccagaca	ctccaggacc	tgctcacttc	ggactcactt	agccacagcg	atgtcatgat	1800
gacacagtcg	gaccccttga	tgtctcaggc	cagcaccgct	gtgtctgccc	agaattcccg	1860
ccggaacgtg	atgcttcgca	atgatccgat	gatgtccttt	gctgcccagc	ctaaccaggg	1920
aagtttggtc	aatcagaact	tgctccacca	ccagcaccaa	accagggcg	ctcttggtgg	1980
cagccgtgcc	ttgtcgaatt	ctgtcagcaa	catgggcttg	agtgagtcca	gcagccttgg	2040
gtcagccaaa	caccagcagc	agtctcctgt	cagccagtct	atgcaaacc	tctcggactc	2100
tctctcaggc	tcctccttgt	actcaactag	tgcaaacctg	cccgtcatgg	gccatgagaa	2160
gttccccagc	gacttggacc	tggacatggt	caatgggagc	ttggaatgtg	acatggagtc	2220
cattatccgt	agtgaactca	tggatgctga	tgggttggtg	tttaactttg	attccctcat	2280
ctccacacag	aatgtttgtg	gtttgaacgt	ggggaacttc	actggtgcta	agcaggcctc	2340
atctcagagc	tgggtgccag	gctgaaggat	cactgaggaa	ggggaagtgg	gcaaagcaga	2400

```

ccctcaaact gacacaagac ctacagagaa aaccctttgc caaatctgct ctcagcaagt 2460
ggacagtgat accgtttaca gcttaacacc tttgtgaatc ccacgccatt ttcctaaccc 2520
agcagagact gttaatggcc ccttaccctg ggtgaagcac ttacccttgg aacagaactc 2580
taaaaagtat gcaaaaatctt ccttgtacag ggtggtgagc cgcttgccag tggaggacag 2640
caccctcag caccaccac cctcattcag agcacaccgt gagccccgt cggccattct 2700
gtggtgtttt aatattgcga tggtttatgg gacgttttaa gtgttgttct tgtgtttggt 2760
ttcctttgac tttctgagtt tttcacatgc attaacttgc ggtatttttc tgttaaaatg 2820
ttaaccgtcc ttcccctagc aaatttaaaa acagaaagaa aatggtgtac cagttaccat 2880
tccgggttcg agcatcacia gcttttgagc gcatggaact ccataaacta acaaattaca 2940
taaaactaaag ggggattttc tttcttcttt tgtttggtag aaaattatcc ttttctaaaa 3000
actgaacaat ggcacaattg tttgctatgt gcacccgtcc aggacagaac cgtgcatagg 3060
caaaaggagt ggagcacagc gtccggccca gtgtgtttcc ggttctgagt caggggtgatc 3120
tgtggacggg accccagcac caagtctacg ggtgccagat cagtagggcc tgtgatttcc 3180
tgtcagtgtc ctcagctaatt gtgaacagtg ttggtctgct ggtagaaac tagaatattg 3240
atattttcag gaaagaaatc agctcagctc tccactcatt gccaaatgtc actaaagggt 3300
ttagttttta ggagaaagaa aaggaaaaaa aaaaaaaa 3338

```

<210> 33

<211> 2646

<212> DNA

<213> NM_152873.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 4, mRNA

```

<400> 33
cctacccgcg cgcaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc 60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga 120
tctcgcgcaa gagtgcacac cagggtgttca aagacgcttc tggggagtga gggaaagcgg 180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt 300
acggagttag ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg 360
gaccctccta cctctgggtt ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga 480
gactcagaac ttggaaggcc tgcacatga tggccaattc tgccataagc cctgtcctcc 540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccctg 600
ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag 660

```

atttgtgtgat	gaaggacatg	atgtgaacat	ggaatcatca	aggaatgcac	actcaccagc	720
aacaccaagt	gcaaagagga	aggatccaga	tctaacttgg	ggtggctttg	tcttcttctt	780
ttgccaatc	cactaattgt	ttgggtgaag	agaaaggaag	tacagaaaac	atgcagaaag	840
cacagaaagg	aaaaccaagg	ttctcatgaa	tctccaacct	taaatcctga	aacagtggca	900
ataaatattat	ctgatgttga	cttgagtaaa	tatatcacca	ctattgctgg	agtcatgaca	960
ctaagtcaag	ttaaaggctt	tgttcgaaag	aatggtgtca	atgaagccaa	aatagatgag	1020
atcaagaatg	acaatgtcca	agacacagca	gaacagaaag	ttcaactgct	tcgtaattgg	1080
catcaacttc	atggaaagaa	agaagcgtat	gacacattga	ttaaagatct	caaaaaagcc	1140
aatcttttga	ctcttgcaga	gaaaattcag	actatcatcc	tcaaggacat	tactagtgc	1200
tcagaaaatt	caaacttcag	aatgaaatc	caaagcttgg	tctagagtga	aaaacaacaa	1260
attcagttct	gagtatatgc	aattagtgtt	tgaaaagatt	cttaatagct	ggctgtaaat	1320
actgcttgg	tttttactgg	gtacatttta	tcatttatta	gcgctgaaga	gccaacatat	1380
ttgtagattt	ttaatatctc	atgattctgc	ctccaaggat	gtttaaaatc	tagttgggaa	1440
aacaaacttc	atcaagagta	aatgcagtgg	catgctaagt	acccaaatag	gagtgtatgc	1500
agaggatgaa	agattaagat	tatgctctgg	catctaacat	atgattctgt	agtatgaatg	1560
taatcagtgt	atgttagtac	aaatgtctat	ccacaggcta	acccactct	atgaatcaat	1620
agaagaagct	atgacctttt	gctgaaatat	cagttactga	acaggcaggc	cactttgcct	1680
ctaaattacc	tctgataatt	ctagagattt	taccatattt	ctaaactttg	tttataactc	1740
tgagaagatc	atatttatgt	aaagtatatg	tatttgagtg	cagaatttaa	ataaggctct	1800
acctcaaaga	cctttgcaca	gtttattgg	gtcatattat	acaatatttc	aattgtgaat	1860
tcacatagaa	aacattaaat	tataatgttt	gactattata	tatgtgtatg	cattttactg	1920
gctcaaaact	acctacttct	ttctcaggca	tcaaaagcat	tttgagcagg	agagtattac	1980
tagagctttg	ccacctctcc	atttttgcct	tggtgctcat	cttaatggcc	taatgcaccc	2040
ccaaacatgg	aaatatcacc	aaaaaatact	taatagtcca	ccaaaaggca	agactgccct	2100
tagaaattct	agcctgggtt	ggagatacta	actgctctca	gagaaagtag	ctttgtgaca	2160
tgtcatgaac	ccatgtttgc	aatcaaagat	gataaaatag	attcttattt	ttccccacc	2220
cccgaaaatg	ttcaataatg	tcccatgtaa	aacctgctac	aaatggcagc	ttatacatag	2280
caatggtaaa	atcatcatct	ggatttagga	attgctcttg	tcatacccc	aagtttctaa	2340
gatttaagat	tctccttact	actatcctac	gtttaaatat	ctttgaaagt	ttgtattaaa	2400
tgtgaatttt	aagaaataat	atttatattt	ctgtaaagt	aaactgtgaa	gatagttata	2460
aactgaagca	gatacctgga	accacctaaa	gaacttccat	ttatggagga	tttttttgcc	2520
ccttgtgttt	ggaattataa	aatataggta	aaagtacgta	attaaataat	gttttttggt	2580
aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	2640

aaaaaa

2646

<210> 34

<211> 817

<212> DNA

<213> NM_002038.2| Homo sapiens interferon, alpha-inducible protein (clone IFI-6-16) (G1P3), transcript variant 1, mRNA

```

<400> 34
gaaccgttta ctcgctgctg tgcccatcta tcagcaggct ccgggctgaa gattgcttct    60
cttctctcct ccaaggtcta gtgacggagc ccgcgcgcgg cgccaccatg cggcagaagg    120
cggtatcgct tttcttgtgc tacctgctgc tcttcacttg cagtggggtg gaggcaggta    180
agaaaaagtg ctcggagagc tcggacagcg gctccggggt ctggaaggcc ctgaccttca    240
tggccgtcgg aggaggactc gcagtcgccg ggctgcccgc gctgggcttc accggcgccg    300
gcatcgcggc caactcgggt gctgcctcgc tgatgagctg gtctgcgatc ctgaatgggg    360
gcggcggtgcc cgccgggggg ctagtggcca cgctgcagag cctcggggct ggtggcagca    420
gcgtcgtcat aggtaatatt ggtgccctga tgggctacgc caccacaag tatctcgata    480
gtgaggagga tgaggagtag ccagcagctc ccagaacctc ttcttccttc ttggcctaac    540
tcttcagatt aggatctaga actttgcctt tttttttttt tttttttttt tttgagatgg    600
gttctcacta tattgtccag gctagagtgc agtggctatt cacagatgcg aacatagtag    660
actgcagcct ccaactccta gcctcaagtg atcctcctgt ctcaacctcc caagtaggat    720
tacaagcatg cgccgacgat gcccagaatc cagaactttg tctatcactc tccccaacaa    780
cctagatgtg aaaacagaat aaacttcacc cagaaaaa    817

```

<210> 35

<211> 1172

<212> DNA

<213> NM_001565.1| Homo sapiens chemokine (C-X-C motif) ligand 10 (CXCL10), mRNA

```

<400> 35
gagacattcc tcaattgctt agacatattc tgagcctaca gcagaggaac ctccagtctc    60
agcaccatga atcaaactgc gattctgatt tgctgcctta tctttctgac tctaagtggc    120
attcaaggag tacctctctc tagaaccgta cgctgtacct gcatcagcat tagtaatcaa    180
cctgttaatc caaggctctt agaaaaactt gaaattattc ctgcaagcca attttgtcca    240
cgtgttgaga tcattgctac aatgaaaaag aagggtgaga agagatgtct gaatccagaa    300
tcgaaggcca tcaagaattt actgaaagca gttagcaagg aaatgtctaa aagatctcct    360

```

```

taaaac caga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg      420
cctctcccat cacttcctta catggagtat atgtcaagcc ataattgttc ttagtttgca      480
gttactactaa aagggtgacca atgatgggtca ccaaatacagc tgctactact cctgtaggaa      540
ggttaatgtt catcatccta agctattcag taataactct accctggcac tataatgtaa      600
gctctactga ggtgctatgt tcttagtgga tgttctgacc ctgcttcaaa tatttccttc      660
acctttccca tcttccaagg gtactaagga atctttctgc tttggggttt atcagaattc      720
tcagaatctc aaataactaa aagggtatgca atcaaatactg ctttttaaag aatgctcttt      780
acttcatgga cttccactgc catcctccca aggggcccaa attctttcag tggctaccta      840
catacaattc caaacacata caggaaggta gaaatatctg aaaatgtatg tgtaagtatt      900
cttatttaat gaaagactgt acaaagtata agtcttagat gtatatattt cctatatattg      960
tttcagtgtg catggaataa catgtaatta agtactatgt atcaatgagt aacaggaaaa     1020
ttttaaaaat acagatagat atatgctctg catgttacat aagataaatg tgctgaatgg     1080
ttttcaaata aaaatgaggt actctcctgg aaatattaag aaagactatc taaatgttga     1140
aagatcaaaa ggttaataaa gtaattataa ct                                     1172

```

<210> 36

<211> 396

<212> DNA

<213> NM_005950.1| Homo sapiens metallothionein 1G (MT1G), mRNA

```

<400> 36
actccgcctt ccacgtgcac ccactgcctc ttcccttctc gcttgggaac tctagtctcg      60
cctcggggtt caatggaccc caactgctcc tgtgccgctg gtgtctcctg cacctgcgcc      120
agctcctgca agtgcaaaga gtgcaaatgc acctcctgca agaagagctg ctgctcctgc      180
tgccctgtgg gctgtgccaa gtgtgcccaa ggctgcatct gcaaaggggc atcggagaag      240
tgtagctgct gcgcctgatg tcgggacagc cctgctccca agtacaata gagtgacccg      300
taaaaatctag gattttttgt tttttgctac aatcttgacc cttttgctac attccctttt      360
ttctgtgaaa tatgtgaata ataattaaac acttag                                     396

```

<210> 37

<211> 2755

<212> DNA

<213> NM_000043.3| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 1, mRNA

<400> 37
cctaccgcg cgaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc 60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga 120
tctcgcgcaa gagtgcacac cagggtgttca aagacgcttc tggggagtgga gggaagcggc 180
ttacgagtga ctgggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt 300
acggagttag ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg 360
gaccctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga 480
gactcagaac ttggaaggcc tgcattcatga tggccaattc tgccataagc cctgtcctcc 540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccctg 600
ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag 660
attgtgtgat gaaggacatg gcttagaagt ggaaataaac tgcacccgga cccagaatac 720
caagtgcaga tgtaaaccac actttttttg taactctact gtatgtgaac actgtgaccc 780
ttgcacacaa tgtgaacatg gaatcatcaa ggaatgcaca ctcaccagca acaccaagt 840
caaagaggaa ggatccagat ctaacttggg gtggccttctt cttcttcttt tgccaattcc 900
actaattggt tgggtgaaga gaaaggaagt acagaaaaca tgcagaaagc acagaaagga 960
aaaccaaggt tctcatgaat ctccaacctt aaatcctgaa acagtggcaa taaatttatc 1020
tgatgttgac ttgagtaaat atatcaccac tattgctgga gtcattgacac taagtcaagt 1080
taaaggcttt gttcgaaaga atggtgtcaa tgaagccaaa atagatgaga tcaagaatga 1140
caatgtccaa gacacagcag aacagaaagt tcaactgctt cgtaattggc atcaacttca 1200
tggaagaaa gaagcgtatg acacattgat taaagatctc aaaaagcca atctttgtac 1260
tcttgagag aaaattcaga ctatcatcct caaggacatt actagtgact cagaaaattc 1320
aaacttcaga aatgaaatcc aaagcttggc ctagagtga aaacaacaaa ttcagttctg 1380
agtatatgca attagtgttt gaaaagattc ttaatagctg gctgtaaata ctgcttgggt 1440
ttttactggg tacattttat catttattag cgctgaagag ccaacatatt tgtagatttt 1500
taatatctca tgattctgcc tccaaggatg tttaaaatct agttgggaaa acaaaacttca 1560
tcaagagtaa atgcagtggc atgctaagta cccaaatagg agtgtatgca gaggatgaaa 1620
gattaagatt atgctctggc atctaacata tgattctgta gtatgaatgt aatcagtgt 1680
tgtagtagaca aatgtctatc cacaggctaa cccactcta tgaatcaata gaagaagcta 1740
tgaccttttg ctgaaatatc agttactgaa caggcaggcc actttgcctc taaattacct 1800
ctgataattc tagagatttt accatatttc taaactttgt ttataactct gagaagatca 1860
tatttatgta aagtatatgt atttgagtgc agaatttaaa taaggctcta cctcaaagac 1920
ctttgcacag tttattgggtg tcatattata caatatttca attgtgaatt cacatagaaa 1980

```

acattaaatt ataatgtttg actattatat atgtgtatgc attttactgg ctcaaaacta 2040
cctacttctt tctcaggcat caaaagcatt ttgagcagga gagtattact agagctttgc 2100
cacctctcca tttttgcctt ggtgctcatc ttaatggcct aatgcacccc caaacatgga 2160
aatatcacca aaaaatactt aatagtccac caaaaggcaa gactgccctt agaaattcta 2220
gcctggtttg gagatactaa ctgctctcag agaaagtagc tttgtgacat gtcatgaacc 2280
catgtttgca atcaaagatg ataaaataga ttcttatttt tccccaccc ccgaaaatgt 2340
tcaataatgt cccatgtaaa acctgctaca aatggcagct tatacatagc aatggtaaaa 2400
tcatcatctg gatttaggaa ttgctcttgt catacccca agtttctaag atttaagatt 2460
ctccttacta ctatcctacg tttaaatatc tttgaaagtt tgtattaaat gtgaatttta 2520
agaaataata tttatatattc tgtaaatgta aactgtgaag atagttataa actgaagcag 2580
atacctggaa ccacctaaag aacttccatt tatggaggat ttttttgccc cttgtgtttg 2640
gaattataaa atataggtaa aagtacgtaa ttaaataatg ttttttgtaa aaaaaaaaaa 2700
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 2755

```

<210> 38

<211> 1600

<212> DNA

<213> NM_001953.2| Homo sapiens endothelial cell growth factor 1 (platelet-derived) (ECGF1), mRNA

```

<400> 38
gccccgccgc cggcagtgga ccgctgtgcg cgaaccctga accctacggt cccgacccgc 60
gggcgaggcc gggtagctgg gctgggatcc ggagcaagcg ggcgagggca gcgccctaag 120
caggccccga gcgatggcag ccttgatgac cccgggaacc ggggccccac ccgcgcctgg 180
tgacttctcc ggggaaggga gccagggact tcccgaccct tcgccagagc ccaagcagct 240
cccggagctg atccgcagta agcgagacgg aggcgcctg agcgaagcgg acatcagggg 300
cttcgtggcc gctgtggtga atgggagcgc gcagggcgca cagatcgggg ccatgctgat 360
ggccatccga cttcggggca tggatctgga ggagacctcg gtgctgacct aggccctggc 420
tcagtcggga cagcagctgg agtgccaga ggcctggcgc cagcagcttg tggacaagca 480
ttccacaggg ggtgtgggtg acaaggctag cctggctctc gcacctgccc tggcggcag 540
tggctgcaag gtgccaatga tcagcggacg tggctctggg cacacaggag gcaccttgga 600
taagctggag tctattcctg gattcaatgt catccagagc ccagagcaga tgcaagtgt 660
gctggaccag gcgggctgct gtatcgtggg tcagagttag cagctgggtc ctgcggacgg 720
aatcctatat gcagccagag atgtgacagc caccgtggac agcctgccac tcatcacagc 780
ctccattctc agtaagaaac tcgtggaggg gctgtccgct ctggtggtgg acgttaagtt 840

```



```

cggagggggcc gccgtcttcc ccaaccagga gcaggcccgg gagctggcaa agacgctggt    900
tggcgtggga gccagcctag ggcttcgggt cgcggcagcg ctgaccgcca tggacaagcc    960
cctgggtcgc tgcgtgggccc acgccctgga ggtggaggag gcgctgctct gcatggacgg    1020
cgcaggccccg ccagacttaa gggacctggt caccacgctc gggggcgccc tgctctggct    1080
cagcggacac gcgggggactc aggctcaggg cgctgcccgg gtggccgcgg cgctggacga    1140
cggctcggcc cttggccgct tcgagcggat gctggcggcg cagggcgctg atcccggctc    1200
ggccccgagcc ctgtgctcgg gaagtcccg cagaacgccg cagctgctgc ctgcgccccg    1260
ggagcaggag gagctgctgg cggccgcaga tggcaccgtg gagctggtcc gggcgctgcc    1320
gctggcgctg gtgctgcacg agctcggggc cgggcgcagc cgcgctgggg agccgctccg    1380
cctgggggtg ggcgcagagc tgctggtcga cgtgggtcag aggctgcgcc gtgggacccc    1440
ctggctccgc gtgcaccggg acggccccgc gctcagcggc ccgcagagcc gcgccctgca    1500
ggaggcgctc gtactctccg accgcgcgcc attcgccgcc ccctcgccct tcgcagagct    1560
cgttctgccc ccgcagcaat aaagctcctt tgccgcgaaa    1600

```

<210> 39

<211> 931

<212> DNA

<213> NM_005138.1| Homo sapiens SCO cytochrome oxidase deficient homolog 2 (yeast) (SCO2), nuclear gene encoding mitochondrial protein, mRNA

```

<400> 39
gcagagccca gggagctgga ggtcggcgct tcctctcgtg cttggtccac tgacgcgcgg    60
ccccgccgcg aggagcatca gatccatgct gctgctgact cggagccca cagcttggca    120
caggctctct cagctcaagc ctccggtcct ccctgggacc ctgggaggcc aggccctgca    180
tctgagggtc tggcttttgt caaggcaggg ccctgcagag acagggtggc agggccagcc    240
ccagggccct gggcttcgaa cccggctgct gatcacaggc ctgttcgggg ctggactcgg    300
tggggccctg ctggccctga gggctgagaa ggagaggctg cagcagcaaa agcgaacaga    360
agccctgcgc caggcagctg tgggccaggg cgacttccac ctgctggatc acagaggccg    420
ggctcgtgct aaggctgact tccggggcca gtgggtgctg atgtactttg gcttcactca    480
ctgccctgac atctgcccag acgagctgga gaagctggtg cagggtggtg ggcagctgga    540
agcagagcct ggtttgcctc cagtgcagcc tgtcttcac actgtggacc ccgagcggga    600
cgacgttgaa gccatggccc gctacgtcca ggacttccac ccaagactgt tgggtctgac    660
cggctccacc aaacaggttg cccaggctag tcacagttac cgcgtgtact acaatgccgg    720
ccccaaggat gaggaccagg actacatcgt ggaccactcc attgccatct acctgctcaa    780
ccctgacggc ctcttcacgg attactacgg ccggagcaga tcggctgagc agatctcaga    840

```

cagtgtgctg cgccacatgg cggctttccg cagtgtcctg tcttgagcca ctgcagtctg 900
 ggcccatca ttaaaccgggc tgcgtttaaa a 931

<210> 40

<211> 1216

<212> DNA

<213> NM_006419.1| Homo sapiens chemokine (C-X-C motif) ligand 13 (B-cell chemoattractant) (CXCL13), mRNA

<400> 40
 ttggcactt gggagaagat gtttgaaaaa actgactctg ctaatgagcc tggactcaga 60
 gctcaagtct gaactctacc tccagacaga atgaagttca tctcgacatc tctgcttctc 120
 atgctgctgg tcagcagcct ctctccagtc caagggtgtc tggagggtcta ttacacaagc 180
 ttgagggtgta gatgtgtcca agagagctca gtctttatcc ctagacgctt cattgatcga 240
 attcaaatct tgccccgtgg gaatgggtgt ccaagaaaag aaatcatagt ctggaagaag 300
 aacaagtcaa ttgtgtgtgt ggaccctcaa gctgaatgga tacaagaat gatggaagta 360
 ttgagaaaaa gaagttcttc aactctacca gttccagtgt ttaagagaaa gattccctga 420
 tgctgatatt tccactaaga acacctgcat tcttccctta tccctgctct ggattttagt 480
 tttgtgctta gttaaactct ttccagggag aaagaacttc cccatacaaa taaggcatga 540
 ggactatgtg aaaaataacc ttgcaggagc tgatggggca aactcaagct tcttactca 600
 cagcacccta tatacacttg gagtttgcac tcttattcat caggaggagaa agtttctttg 660
 aaaatagtta ttcagttata agtaatacag gattattttg attatatact tgttgtttaa 720
 tgtttaaaat ttcttagaaa acaatggaat gagaatttaa gcctcaaatt tgaacatgtg 780
 gcttgaatta agaagaaaat tatggcatat attaaaagca ggcttctatg aaagactcaa 840
 aaagctgcct gggaggcaga tgggaacttg gcctgtcaag aggcaaagga atccatgtag 900
 tagatatcct ctgcttaaaa actcactacg gaggagaatt aagtcctact tttaaagaat 960
 ttctttataa aatttactgt ctaagattaa tagcattcga agatccccag acttcataga 1020
 atactcaggg aaagcattta aagggtgatg tacacatgta tcctttcaca catttgcctt 1080
 gacaaacttc tttcactcac atctttttca ctgacttttt ttgtgggggc ggggccgggg 1140
 ggactctggt atctaattct ttaatgattc ctataaatct aatgacattc aataaagttg 1200
 agcaaacatt ttactt 1216

<210> 41

<211> 738

<212> DNA

<213> NM_006433.2| Homo sapiens granulysin (GNLY), transcript variant NKG5, mRNA

```

<400> 41
gtatctgtgg taaacccagt gacacggggg agatgacata caaaaagggc aggacctgag      60
aaagattaag ctgcaggctc cctgcccata aaacaggggtg tgaaaggcat ctcagcggct      120
gccccaccat ggctacctgg gccctcctgc tccttgacagc catgctcctg ggcaaccacg      180
gtctgggtctt ctctcgtctg agccctgagt actacgacct ggcaagagcc cacctgcgtg      240
atgaggagaa atcctgccccg tgcctggccc aggaggggccc ccagggtgac ctgttgacca      300
aaacacagga gctggggccgt gactacagga cctgtctgac gatagtccaa aaactgaaga      360
agatggtgga taagcccacc cagagaagtg tttccaatgc tgcgaccggg gtgtgtagga      420
cggggagggtc acgatggcgc gacgtctgca gaaatttcat gaggaggtat cagtctagag      480
ttaccacaggg cctcgtggcc ggagaaactg cccagcagat ctgtgaggac ctcaggttgt      540
gtataccttc tacagggtccc ctctgagccc tctcaccttg tcctgtggaa gaagcacagg      600
ctcctgtcct cagatcccgg gaacctcagc aacctctgcc ggctcctcgc ttcctcgatc      660
cagaatccac tctccagtct ccctcccctg actccctctg ctgtcctccc ctctcacgag      720
aataaagtgt caagcaag                                     738

```

<210> 42

<211> 1579

<212> DNA

<213> NM_001767.2| Homo sapiens CD2 antigen (p50), sheep red blood cell receptor (CD2), mRNA

```

<400> 42
accaaccctt aagatgagct ttccatgtaa atttgtagcc agcttccttc tgattttcaa      60
tgttttcttc aaagggtgcag tctccaaaga gattacgaat gccttggaac cctgggggtgc      120
cttgggtcag gacatcaact tggacattcc tagttttcaa atgagtgatg atattgacga      180
tataaaatgg gaaaaaactt cagacaagaa aaagattgca caattcagaa aagagaaaga      240
gactttcaag gaaaaagata catataagct atttaaaaat ggaactctga aaattaagca      300
tctgaagacc gatgatcagg atatctacaa ggtatcaata tatgatacaa aaggaaaaaa      360
tgtgttgga aaaaatatttg atttgaagat tcaagagagg gtctcaaaac caaagatctc      420
ctggacttgt atcaacacaa ccctgacctg tgaggtaatg aatggaactg accccgaatt      480
aaacctgtat caagatggga aacatctaaa actttctcag agggatcatca cacacaagtg      540
gaccaccagc ctgagtgcaa aattcaagtg cacagcaggg aacaaagtca gcaaggaatc      600
cagtgtcgag cctgtcagct gtccagagaa aggtctggac atctatctca tcattggcat      660

```

```

atgtggagga ggcagcctct tgatggctct tgtggcactg ctcgttttct atatcaccaa 720
aaggaaaaaa cagaggagtc ggagaaatga tgaggagctg gagacaagag cccacagagt 780
agctactgaa gaaagggggc ggaagcccca acaaattcca gcttcaaccc ctcagaatcc 840
agcaacttcc caacatcctc ctccaccacc tgggtcatcgt tcccaggcac ctagtcatcg 900
tccccgcct cctggacacc gtgttcagca ccagcctcag aagaggcctc ctgctccgtc 960
gggcacacaa gttcaccagc agaaaggccc gccctcccc agacctcgag ttcagccaaa 1020
acctcccat ggggcagcag aaaactcatt gtccccttcc tctaattaaa aaagatagaa 1080
actgtctttt tcaataaaaa gcaactgtga tttctgccct cctgatgtgc atatccgtac 1140
ttccatgagg tgttttctgt gtgcagaaca ttgtcacctc ctgaggctgt gggccacagc 1200
cacctctgca tcttcgaact cagccatgtg gtcaacatct ggagtttttg gtctcctcag 1260
agagctccat cacaccagta aggagaagca atataagtgt gattgcaaga atggtagagg 1320
accgagcaca gaaatcttag agatttcttg tcccctctca ggtcatgtgt agatgcgata 1380
aatcaagtga ttggtgtgcc tgggtctcac tacaagcagc ctatctgctt aagagactct 1440
ggagtttctt atgtgccctg gtggacactt gccaccatc ctgtgagtaa aagtgaata 1500
aaagctttga ctagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa

```

<210> 43

<211> 3738

<212> DNA

<213> NM_006275.4| Homo sapiens splicing factor, arginine/serine-rich 6 (SFRS6), mRNA

```

<400> 43
ctggcgcgcg cgcgcgccat tgtgtggctg gactcggccg cccctgtggt gtgaggcgcg 60
tgttcggggt cttgccgtcc ccgcaccgc accgcggtta ctggcttgcg gtccgccgtt 120
cgacaaccag cccttgggtc cccgcccgc accgacatgc cgcggtcta cataggacgc 180
ctgagctaca acgtccggga gaaggacatc cagcgctttt tcagtggcta tggccgcctc 240
ctcgaagtag acctcaaaaa tgggtacggc ttcgtggagt tcgaggactc ccgcgacgcc 300
gacgacgccg ttacgagct gaacggcaag gagctctgcg gcgagcgcg gatcgtagag 360
cacgcccggg gccgcgctcg cgatcgcgac ggctacagct acggaagccg cagtgggtga 420
ggtggataca gcagtcggag aacatctggc agagacaaat acggaccacc tgttcgtaca 480
gaatacaggc ttattgtaga aaatctttct agtcggtgca gttggcaaga tttaaaggat 540
tttatgcgac aagcaggtga agtaacctat gcggatgcc acaaggaaacg aacaaatgag 600
ggtgtaattg agtttcgctc ctactctgac atgaagcgtg ctttggacaa actggatggc 660

```

acagaaataa atggcagaaa tattaggctt attgaagata agccacgcac aagccatagg 720
 cgatcttact ctggaagcag atccaggtct cgatctagaa gacgggtcacg aagtaggagt 780
 cgcaggagca gccgcagtag atctcgaagt atctcaaaaa gtcgctcccg tccagggtcg 840
 cggagcaaaag gtcgatcacg ttctcgatca aaaggcagga aatctagatc aaagagcaaa 900
 tctaagccca agtctgatcg gggctcccat tcacattctc gaagcagatc taaggatgag 960
 tatgagaaat ctggaagcag gtctcgggtcc cgatcccca aagaaaatgg aaaggggtgat 1020
 ataaagtcaa aatccagatc aaggagccag tcccgttcca attcgccgct acctgttcca 1080
 ccctcaaagg cccgttctgt gtcccctcca caaaaagag ctacttcaag atcccgttct 1140
 agatctcgct caaagtcaag atcaagggtcc aggtcgaggt ccagagatta actcagaact 1200
 ccttgtttgc acattattat ggaacacttt cctacttagg cagttactct tccatgttta 1260
 tacttggcct cttctgcaag aggaatctct tgaaaacagg ggcacacaga aatttgattt 1320
 gtggccaaat tggatgaaaa agatgagggt ctaaggaaat ggtggcatga agaccctctc 1380
 ccttctttgt agaattaaga taactttgat tttatagctt ttgagctaac gtaacttttg 1440
 taaagattaa gctcatttag tgttgttttt tttttttttt ttttttttt ttttttagtat 1500
 ttcagcagga tctgctggca gggttttttt gttttatttg tttgcttatt tttaaattaa 1560
 ctgttttgag ctttgaatac ttaaggcttt agaggggagaa cccaattttc aattatgttg 1620
 gctttttata aagcttgagt tatgtaagat ttaaataaaa gtttgctacc aagatgattg 1680
 ccttattgaa taggtcacta ttaaattcct ttaaatgttg atatctgcca tttgtggaaa 1740
 caacgtaaat tctacttaag tgtaacaag gcaagcctca gaccagcaat aaattactca 1800
 gtttgataa cattattttg tgcagttaat caaatttgcc aaagtcttta tctgcccctt 1860
 taacaagttg agtaaaaata aaagggtattt tttagtcaat gtgttccatg attttgctta 1920
 aattaatact ttttaagtaat ggaacttttt tcaaggcaa atttaacta ttttaagaaat 1980
 agctcctaact acttgggatc ttgttttagag aatccacttt ctggaagtct tcagcataat 2040
 tagtgttgag agtggttcag ttgtctttta tgtttgtcat gtggaaatgg aagtagcctc 2100
 tttttgttct gaaattgagt ttattcaaag tgtaaaagca catactgcat tttctgctga 2160
 aagatcatta tgtttaacag gcacttaatc tcagtaaagt cagttgccag ttaagttcca 2220
 cccagtagtc agtccccttt gtagtttagt ggattatttg ataattggtt agatcatact 2280
 tgtaaatttt aatgctttgt gtaattgggt tgaaaaacag tgaaatgggt aaacgcaaaa 2340
 cttttgtact ttattacgag taaagtgtaa tgagtactgt ggaaaccaa tttgaatact 2400
 gcaaatgtt aggagttact aggttagcaa ttagtccata catccataag cctgatgagt 2460
 tgaaattgca gtttgagaag tgaattaacc ttacatccct ttgttcagat accttaaaag 2520
 ttactttatt taaaagcatt tattaatctt agtctgaaat caaaatatag attaatgggc 2580
 tcagctttta tacctttcta ggagggtgtca caatgtaggg taccaagggt tggattgtga 2640
 tggggcatgg tcgtacactg ctcatgtgtc cacagggtgt actggaaagc atgatattct 2700

```

agggttggtt tgtagattca aataatccag aaatatacct aataagattg agtgaaaaat 2760
ttgagtcaaa tatctagggc attcacagag tagctgtgag ttcttggtta tgtgaaaaag 2820
gccttgtttt tcagaaattc ctggggtttcc tgttaaaaaa tcttaaagcc caaccttagg 2880
aatatagtgc cccaaaaggc ggatgcttct tccattatct ttttttcttt gatactttat 2940
ttaattagat gtttataaaag aaatggggtt atttttccag cataaacctc agaattttaag 3000
gaaagaaaat gatgtctgtt gttatagttc attgttttgc ctactcagca gaagtgatga 3060
ctcttaaaaa ttggctttga ccaaagtctc ctggttttca gggaaagaac ataaaagctt 3120
tttgaactac agccttttta aaagagggat gggaggatat tacagtaaga aattaggctt 3180
tctaaaagta tgaacatcc ttcaactggg ctctcttggt aataggacat catatggtaa 3240
tagactgggt tgactatatt gttagctgcc acagtaagca ggtcattgta taggtaaatg 3300
cctgcacca taattttcta gtaatagcca cgaccaatth attaacagtc agggcctatc 3360
cttgctgta gttctcagtc actggatgca caaatcact gtgtaacatt ggctcacttg 3420
gtgagcatag ggttgactga taaaatgttt aattcccttg ctagcttggt agaagaatga 3480
gttgatgaca tgctccatac cagtggctag atggagtatt aaggaggagc agaaaagaag 3540
tgagaacatc ttgattcccc tttcttttac ttgatgggtt ttatgaacat gccgtagtgc 3600
ctttatggcc agtttgagtc ctgcctactt tgacttttac gttccattc ctgtgttacc 3660
accttcctcc cgatttggtc acctattttg tgctttaaat ctcaataaaa tacttactga 3720
ggaaaaaaaa aaaaaaaaaa 3738

```

<210> 44

<211> 2033

<212> DNA

<213> NM_003212.1| Homo sapiens teratocarcinoma-derived growth factor 1 (TDGF1), mRNA

```

<400> 44
ggagaatccc cggaaaggct gagtctccag ctcaagggtca aaacgtccaa ggccgaaagc 60
cctccagttt cccctggacg ccttgctcct gcttctgcta cgaccttctg gggaaaacga 120
atttctcatt ttcttcttaa attgccattt tcgctttagg agatgaatgt tttcctttgg 180
ctgttttggc aatgactctg aattaaagcg atgctaacgc ctcttttccc cctaattggt 240
aaaagctatg gactgcagga agatggcccg cttctcttac agtgtgattt ggatcatggc 300
catttctaaa gtctttgaac tgggattagt tgccgggctg ggccatcagg aatttgctcg 360
tccatctcgg ggatacctgg ccttcagaga tgacagcatt tggccccagg aggagcctgc 420
aattcggcct cgggtcttccc agcgtgtgcc gcccatgggg atacagcaca gtaaggagct 480
aaacagaacc tgctgcctga atgggggaac ctgcatgctg gggtcctttt gtgcctgccc 540

```

```

tccctccttc tacggacgga actgtgagca cgatgtgctc aaagagaact gtgggtctgt    600
gccccatgac acctggctgc ccaagaagtg ttccctgtgt aaatgctggc acggtcagct    660
ccgctgcttt cctcaggcat ttctacccgg ctgtgatggc cttgtgatgg atgagcacct    720
cgtggcttcc aggactccag aactaccacc gtctgcacgt actaccactt ttatgctagt    780
tggcatctgc ctttctatac aaagctacta ttaatcgaca ttgacctatt tccagaaata    840
caattttaga tatcatgcaa atttcatgac cagtaaaggc tgctgctaca atgtcctaac    900
tgaaagatga tcattttagt ttgccttaaa ataatgaata caatttcaa aatggctctt    960
aacatttcct tacagaacta cttcttactt ctttgccctg ccctctccca aaaaactact   1020
tcttttttca aaagaaagtc agccatatct ccattgtgcc taagtccagt gtttcttttt   1080
tttttttttt ttgagacgga gtctcactct gtcaccaggc ctggactgca atgacgcgat   1140
cttggttcac tgcaacctcc gcatccgggg ttcaagccat tctcctgcct aagcctccca   1200
agtaactggg attacaggca tgtgtcacca tgcccagcta atttttttgt attttagtag   1260
agatgggggt ttcaccatat tggccagtct ggtctcgaac tctgacctg tgatccatcg   1320
atcagcctct cgagtgtga gattacacac gtgagcaact gtgcaaggcc tgggtgttct   1380
tgatacatgt aattctacca aggtcttctt aatatgttct tttaaatgat tgaattatat   1440
gttcagatta ttggagacta attctaattg ggaccttaga atacagtttt gagtagagtt   1500
gatcaaaatc aattaaaata gtctctttta aaggaaagaa aacatcttta aggggaggaa   1560
ccagagtgtc gaagggaatg aagtccatct gcgtgtgtgc agggagactg ggtaggaaag   1620
aggaagcaaa tagaagagag aggttgaaaa acaaaatggg ttacttgatt ggtgattagg   1680
tggtggtaga gaagcaagta aaaaggctaa atggaagggc aagtttccat catctataga   1740
aagctatata agacaagaac tccccttttt ttcccaaagg cattataaaa agaatgaagc   1800
ctccttagaa aaaaaattat acctcaatgt cccaacaag attgcttaat aaattgtgtt   1860
tcctccaagc tattcaattc ttttaactgt tgtagaagac aaaatgttca caatatattt   1920
agttgtaaac caagtgatca aactacatat tgtaaagccc attttttaaaa tacattgtat   1980
atatgtgtat gcacagtaaa aatggaaact atattgacct aaaaaaaaaa aaa         2033

```

<210> 45

<211> 367

<212> DNA

<213> NM_005951.1| Homo sapiens metallothionein 1H (MT1H), mRNA

<400> 45

```

ctccagtctc acctcggctt gcaatggacc ccaactgctc ctgcgaggct ggtggctcct    60
gcgcctgcgc cggctcctgc aagtgcaaaa agtgcaaatg cacctcctgc aagaagagct   120

```

gctgctcctg ttgccccctg ggctgtgcca agtgtgcca gggctgcatc tgcaaagggg	180
cgtcagagaa gtgcagctgc tgtgcctgat gtcgggacag ccctgctgtc agatgaaaac	240
agaatgacac gtaaaatccg aggttttttt tttctacaac tccgactcat ttgctacatt	300
cctttttttt tgtgaaatat gtgaataata attaaacact tagacttgaa aaaaaaaaaa	360
aaaaaaa	367

<210> 46

<211> 3052

<212> DNA

<213> NM_000767.4| Homo sapiens cytochrome P450, family 2, subfamily B, polypeptide 6 (CYP2B6), mRNA

<400> 46	
caggaccatg gaactcagcg tcctcctctt ccttgcactc ctcacaggac tcttgctact	60
cctggttcag cgccacccta acaccatga ccgcctccca ccaggggccc gccctctgcc	120
ccttttggga aaccttctgc agatggatag aagaggccta ctcaaatacct ttctgagggt	180
ccgagagaaa tatgggggacg tcttcacggt acacctggga ccgaggcccg tggatcatgct	240
gtgtggagta gaggccatac gggaggccct tgtggacaag gctgaggcct tctctggccg	300
gggaaaaatc gccatggtcg accatttctt ccggggatat ggtgtgatct ttgccaatgg	360
aaaccgctgg aaggtgcttc ggcgattctc tgtgaccact atgaggggact tcgggatggg	420
aaagcggagt gtggaggagc ggattcagga ggaggctcag tgtctgatag aggagcttcg	480
gaaatccaag gggggccctca tggacccac cttcctcttc cagtccatta ccgccaacat	540
catctgctcc atcgtctttg gaaaacgatt ccaactacca gatcaagagt tcctgaagat	600
gctgaacttg ttctaccaga ctttttctact catcagctct gtattcggcc agctgtttga	660
gctctttctt ggcttcttga aatactttcc tggggcacac aggcaagttt acaaaaacct	720
gcaggaaatc aatgcttaca ttggccacag tgtggagaag caccgtgaaa ccctggaccc	780
cagcgccccc aaggacctca tcgacaccta cctgctccac atggaaaaag agaaatccaa	840
cgcacacagt gaattcagcc accagaacct caacctcaac acgctctcgc tcttctttgc	900
tggcactgag accaccagca ccactctccg ctacggcttc ctgctcatgc tcaaataccc	960
tcatgttgca gagagagtct acaggagat tgaacagggt attggcccac atcgccctcc	1020
agagcttcat gaccgagcca aaatgccata cacagaggca gtcatctatg agattcagag	1080
attttccgac cttctcccca tgggtgtgcc ccacattgtc acccaacaca ccagcttccg	1140
agggtacatc atccccaagg acacagaagt atttctcatc ctgagcactg ctctccatga	1200
cccacactac tttgaaaaac cagacgcctt caatcctgac cactttctgg atgccaatgg	1260
ggcactgaaa aagactgaag cttttatccc cttctcctta gggaagcgga tttgtcttgg	1320


```

tgaaggcatc gcccgtagcg aattgttcct cttcttcacc accatcctcc agaacttctc 1380
catggccagc cccgtggccc cagaagacat cgatctgaca cccagaggat gtggtgtggg 1440
caaaataccc ccaacatacc agatccgctt cctgccccgc tgaaggggct gagggaaggg 1500
ggtcaaagga ttccagggtc attcagtgct cccgcctctg tagacaatgg ctctgactcc 1560
ccgcaacttc ctgcctctga gagacctgct acaagccagc ttccttcccc tccatggcac 1620
cagttgtctg aggtcacatt gcaagtgagt gcaggagtga gattatcgaa aattataata 1680
tacaaaatca tatatatata tatgttcttg ttttttgaga cagagtctca cactgttgcc 1740
caggctggag tgcagtggcg tgatctcggc tcaactgcaac ctccaccccc ggggatcaag 1800
caactctcct gcctcagcct ccctagtagc tgggattaca ggcatgcact accacgcttg 1860
gctaattttt gtatttttag tagagatggg gtttcaactgt gtaggccagg ctggtctcga 1920
actcctgaac tcaagtgatt caccacactt agcctcccaa agtgctggga ttacaggcgt 1980
gagtcaccgt gccagccat gtatatatat aattttaaaa attaagctga aattcacata 2040
acataaaatt agctgtttta aagtgtaaaa tttagtggcg tgtggttcat tcacaaagct 2100
gtacaaccac caccatctag ttccaaacat tttctttttt tctgagatgg agtctcactc 2160
tgtcaccag gttcgagttc agtggtgcca tctctgtcca ctgcaacctc cacatcctgg 2220
gttcaagtga ttctcctgcc tcagcctctg gaggagctgg tatcacaggc gtccccacc 2280
acgcctggct aaattttgta ttttaggtg gtcttgaact cctgatgtca ggtgattctc 2340
ctagctccaa atgttttcat tatctctccc ccaacaaaac ccatacctat caagctgtca 2400
ctccccatac ccattctctt tttcatctc ggcccctgtc aatctggttt ttgtcactat 2460
ggacttacca attctgaata tttcccataa acagaatcat acaatatttg attttttttt 2520
tttttttgaa actaagcctt gctctgtctc ccaggctgga gtgctatggg gcaatttttg 2580
ttcactgcaa cctctgcctt ccaagatcaa gagattctcc agtctcagct cccaagtagc 2640
tgggattaca ggcatgtact accatgcctg gctaattttt ttgtagtttt agtagggaca 2700
tgttggccag gctgggtggg agctcctggc ctgaggtgat ccaccacct cagtgttcca 2760
aagtgtgat attacaggca taatatgtga tcttttgtgt ctggttgctt tcatgttgaa 2820
tgctattttt gaggttcatg cctgtttag accacagtca cactgctg tagtcttccc 2880
cagtcctcat tcccagctgc ctcttcctac tgcttccgtc tatcaaaaag ccccttggc 2940
ccaggttccc tgagctgtgg gattctgcac tgggtgcttg gattccctga tatgttcctt 3000
caaatctgct gagaattaaa taaacatctc taaagcctga cctccccacg tc 3052

```

<210> 47

<211> 1645

<212> DNA

<213> NM_003811.2| Homo sapiens tumor necrosis factor (ligand) superfamily, member 9 (TNFSF9), mRNA

```

<400> 47
agtctctcgt catggaatac gcctctgacg cttcactgga ccccgaaagcc ccgtggcctc      60
ccgcgccccg cgctcgcgcc tgccgcgtac tgccttgggc cctggtcgcg gggctgctgc      120
tgctgctgct gctcgctgcc gcctgcgccc tcttcctcgc ctgcccctgg gccgtgtccg      180
gggctcgcgc ctgcgccggc tccgcggcca gcccagagact ccgcgagggg cccgagcttt      240
cgccccacga tcccgcgggc ctcttgacc tgcggcaggg catgtttgcg cagctgggtg      300
cccaaatgt tctgctgac gatgggcccc tgagctggta cagtgaacca ggcctggcag      360
gcgtgtccct gacggggggc ctgagctaca aagaggacac gaaggagctg gtggtggcca      420
aggctggagt ctactatgtc ttctttcaac tagagctgcg gcgcgtggtg gccggcgagg      480
gctcaggctc cgtttcactt gcgctgcacc tgcagccact gcgctctgct gctggggccg      540
ccgccctggc tttgaccgtg gacctgccac ccgcctcctc cgaggctcgg aactcggcct      600
tcggtttcca gggccgcttg ctgcacctga gtgccggcca gcgcctgggc gtccatcttc      660
aactgaggc cagggcacgc catgcctggc agcttaccac gggcgccaca gtcttgggac      720
tcttcgggt gacccccgaa atcccagccg gactcccttc accgaggtcg gaataacgcc      780
cagcctgggt gcagcccacc tggacagagt ccgaatccta ctccatcctt catggagacc      840
cctggtgctg ggtccctgct gctttctcta cctcaagggg cttggcaggg gtccctgctg      900
ctgacctccc cttgaggacc ctctcacc actccttccc caagttggac cttgatattt      960
attctgagcc tgagctcaga taatatatta tatatattat atatatatat atatttctat     1020
ttaagagga tcctgagttt gtgaatggac ttttttagag gagttgtttt gggggggggg     1080
tcttcgacat tgccgaggct ggtcttgaac tcctggactt agacgatcct cctgcctcag     1140
cctccaagc aactgggatt catcctttct attaatcat tgtacttatt tgcctatttg     1200
tgtgtattga gcatctgtaa tgtgccagca ttgtgcccag gctagggggc tatagaaaca     1260
tctagaaata gactgaaaga aaatctgagt tatggttaata cgtgaggaat ttaaagactc     1320
atccccagcc tccacctcct gtgtgatact tgggggctag cttttttctt tctttctttt     1380
ttttgagatg gtcttgttct gtcaaccagg ctagaatgca gcggtgcaat catgagtcaa     1440
tgcagcctcc agcctcgacc tcccgaggct caggtgatcc tcccatctca gcctctcgag     1500
tagctgggac cacagttgtg tgccaccaca cttggctaac tttttaattt ttttgcgag     1560
acggtattgc tatgttgcca aggttgttta catgccagta caatttataa taaacactca     1620
tttttcctca aaaaaaaaaa aaaaaa                                     1645

```

<210> 48

<211> 6640

<212> DNA

<213> NM_006047.4| Homo sapiens RNA binding motif protein 12 (RBM12), transcript variant 1, mRNA

```

<400> 48
gagcgggccc acggccatTT tgtgaagcgg cgaaggaggt ggtggctgCG ttgggctccg      60
ggaagccgtt cgggctgggg ctgtcggccg cggggcggag gcactcgcgc ggggggtaat      120
tcgggggtctg ggttctggtg ccgcgcagct ttccccgtct aaaagttggt ttttaattggt      180
tgcccacagg attgacttgg cctctacttc ttgttaagga aattcatctc ttgttttatc      240
aggtgtgtgt ggtttcagcg cagcatggct gtggtcatcc gtttgcaagg tctcccaatt      300
gtggcgggga ccatggacat tcgccacttc ttctctggat tgaccattcc tgatgggggc      360
gtgcatattg taggggggtga actgggtgag gctttcatcg tttttgccac tgatgaagat      420
gcaaggcttg gtatgatgcg cacagggtgg acaattaaag ggtcaaaagt aacactattg      480
ttgagtagta agacggaaat gcagaatatg attgaactga gtcgtaggcg ttttgaaact      540
gccaaacttag atataccacc agcaaatgcc agtagatcag gaccaccacc tagctcagga      600
atgagtagca gggtaaactt gccacaaca gtatccaact ttaataatcc atcaccagt      660
gtagttagtg ccaccacttc tgttcatgaa agcaacaaaa acatacagac attttccaca      720
gccagcgtag gaacagctcc tccaaatatg ggggttcctt ttgggagccc aacgttttagc      780
tcaactgttc caagcacagc ctctccaatg aacacagtcg cgccgccacc aattcctcca      840
attccagcga tgccatctct gccaccaatg ccatccattc cccaattcc agttcctcct      900
ccagtaccta cattgcctcc tgtgcctcct gtgccccga ttccccagc tccttctgtg      960
ccacccatga ccccaactgcc acccatgtcg ggcagccgc ccttgaatcc gccacctgtg     1020
gcacctctac ctgctggaat gaatggctct ggagcaccta tgaatttgaa caataatctg     1080
aatcctatgt ttcttggtcc gttgaatcct gttaacccta tccagatgaa ctctcagagc     1140
agtgtgaagc cactcccat caaccctgat gatctgtatg tcagtgtgca tggaatgccc     1200
ttttctgcaa tggaaaatga tgtcagagat ttttttcatg ggctccgtgt tgatgcagtg     1260
catttgttga aagatcatgt aggtcgaaat aatgggaatg gattggttaa gtttctctcc     1320
cctcaagata catttgaagc tttgaaacga aacagaatgc tgatgattca acgctatgtg     1380
gaagtttagcc ctgccacaga aagacagtgg gtagctgctg gaggccatat cacttttaag     1440
caaaatatgg gaccttctgg acaaactcat cccctcctc agacacttcc cagggtcaaaa     1500
tcgcccagtg ggcagaaaag atcaagggtca agatcaccac atgaggctgg tttttgtgtt     1560
tacttgaaag ggctaccatt tgaagcagaa aacaaacatg tcattgattt ttttaaaaag     1620
ctggatatatt tggaagatag tatttatata gcttatggac ccaatgggaa agcaactggc     1680
gaaggctttg tagagttcag aaatgaggct gactataagg ctgctctgtg tcgtcataaa     1740
cagtacatgg gcaatcgctt tattcaagtt catccaatta ctaagaaagg tatgctagaa     1800

```

aagatagata	tgattcgaaa	aagactgcag	aacttcagct	atgaccagag	ggaaatgata	1860
ctaaatccag	agggggatgt	caactctgcc	aaagtctgtg	cccacataac	aatattcca	1920
ttcagcatta	caaagatgga	tgttcttcag	ttcctagaag	gaatcccagt	ggatgaaaat	1980
gctgtacatg	ttcttggtga	taacaatggg	caaggtctag	gacaggcatt	ggttcagttt	2040
aaaaatgaag	atgatgcacg	taagtctgaa	cgcttacacc	gtaaaaaact	taatgggaga	2100
gaagcttttg	ttcatgtagt	taccctagaa	gatatgagag	agattgagaa	aatccccct	2160
gccaaggaa	aaaagggatt	aaagatgcct	gtgccaggta	atcctgcagt	tccaggaatg	2220
cccaatgcgg	gactgcccgg	tgtgggactg	cccagtgcag	gacttcccgg	tgcaggcctg	2280
cccagcacag	gactgcctgg	ttcagcaata	accagtgcag	gactgcctgg	tcggggaatg	2340
cccagtgcag	gaatacctag	tgcaggaggt	gaagagcatg	ccttcctgac	tgtaggatca	2400
aaggaagcca	ataatgggcc	tccatttaac	tttcctggta	attttggtgg	atcaaatgcc	2460
tttgggccac	caatccctcc	tccaggatta	ggaggcgggg	cctttggtga	tgctaggcct	2520
ggtatgcctt	cagttggaag	cagtgggttg	cctggtctag	gactggatgt	tccgggtttt	2580
ggaggtggac	caaacaattt	aagtgggcca	tcgggatttg	gagggggccc	tcagaatttt	2640
ggaaatggcc	ctggtagctt	aggcgggtccc	ccgggggttg	gaagtggccc	tcctgggtctt	2700
ggaagtgccc	ctgggcattt	gggtgggcca	ccagcttttg	ggcctggccc	cggccccggc	2760
cccggccctg	gccaatcca	tattggtggt	ccccctggct	ttgcatctag	ttctggaaaa	2820
ccaggaccga	cagtaattaa	agtgcaaac	atgcccttta	ctgtgtctat	tgatgagatt	2880
ttagatttct	tttatggcta	tcaagtaatc	ccaggctcag	tgtgtttaaa	atacaatgaa	2940
aaaggtatgc	ccacagggtga	agccatggtg	gcctttgagt	ctcgggatga	agccacagct	3000
gctgtcattg	acttaaatga	caggcctata	ggttcaagaa	aagtaaaact	tgtattaggg	3060
tagccattca	catcatTTTT	tatagggtag	atcttcata	tgctgtgatt	aatgcatcca	3120
gattgttttc	ctagtatttc	caggtttagaa	cctgtggatt	gtttcaattg	catatagctt	3180
ggtttccata	acatagagca	ttggttgact	gtttacagaa	gactcactca	ccaggataaa	3240
cattgctgta	tgttacagta	aagctatctg	gagagaacac	ataaatgatt	ttggcatacc	3300
attagagaaa	ccatttgtaa	aactcaaatg	accacataaa	gcttatcaag	gagtctagat	3360
tggttttgtt	ttataccata	tgggatgaag	aaaatagaaa	tgtcagtaga	actcattgag	3420
ggtgctcttg	ccagctgctg	aaaatagaag	ttggctactc	tcagaatttg	gtttaaagct	3480
ggacagattt	gctttgttat	agggtaaagc	tttgtctaaa	gtcctcattt	tcttttaaaa	3540
ttgaataaaa	tttctgtata	cagattcatt	gtatgtacct	ttattgcttc	ttaaggggcc	3600
ttgctgtata	gacagtcctg	cttcagaagt	tgctgctttg	tttgtcta	tgactcattt	3660
gtaaatgagc	agaactgttt	tgttggtttt	tttccctaaa	tataaaagtc	cacacttcgt	3720
ttgtgctata	acctcaaact	ttgatttcta	atgtcacact	taaaactgtg	tggaataaga	3780

cttttgccat	aaaaataaac	tatggagtcc	tttatctacc	agagcctttt	tggtttgacc	3840
gccacgattt	aggttagtca	gtttaaaaat	tgttcatggt	gtttggatgg	tatcgaaaac	3900
cagaaaccac	ttttaataat	gtgtttaaga	tacttgattt	gaagtccttt	tcatatggac	3960
taattgtagt	atcaatttcc	tcctgtcccg	attatgtgaa	attttggcct	ttaaacaaag	4020
agggggcccat	tcataagaaa	gtgttatatc	taggttttta	aaactgaagt	tgaaattatc	4080
tttgttagca	gtagtagtat	agaataaaaag	atccgtatgc	tggttcgtag	attgatacgt	4140
gttagtcctg	ttatttggag	gctttttggc	atagttgttc	gatcaggagc	ctgtttacta	4200
aaagtcttca	tacagagtac	aagtgcagcc	gccagaggag	aaaattgaga	ttcttgaccc	4260
tttcatactc	ttttcttttg	tattcaggac	actaaggcag	gaggaccaca	tgagtctctg	4320
ttggtaagt	tccttgtcat	gaaaacactt	gccttacaag	gctctaatta	tgatttcctt	4380
agtcagtgt	ctgaagatgt	gtcacattat	attataaaca	atacgggaagg	ggagataggt	4440
gagatgatat	gaaaaacaaa	ttttctcact	gtcataaaaag	gctctaatta	tggttacttt	4500
ccttgtgatg	aaaaacttgg	ccttacaggg	ctctagttat	ggttactttc	cctagtcaat	4560
gctctgaaaa	tgtgtcacat	tataaacaat	acagaaggag	agatagatga	gagatcatga	4620
aaaccaaatt	ttatctttta	catggcccct	ttgtcttcgt	ttgaaacatc	cccaacattt	4680
cctacaaatc	agcgtagtta	caaaggggtc	agtcttttaa	aataagtatt	tcctattaaa	4740
ctatatatat	atacagtgcc	tttttggtgt	tgtgagtcag	tggaacactg	aaatacagcg	4800
gttggtgta	ttagagtgg	caacagtttc	atttgataag	atttgaaaag	gctttttatc	4860
actacaatct	tagaggattg	acagtacagg	atttttgttt	aagagaagga	ttgttttagac	4920
tcaagaggtg	actatgttgt	gggtcttttg	ataattcatg	aatacagatt	tgctttgacc	4980
gatcactaga	tactgcctcc	tcaatttcaa	aagcaatata	acgtttgtat	atgctgttta	5040
atttaagtta	atgttaagta	atcattttctc	attccaaaga	caatgcaaaa	aacttcagca	5100
ctgcttgaga	gttgattttc	agccacagat	attttctcca	ttggaaagct	attttcattt	5160
tagaaaaatg	ggttgtttga	agatgaaagt	cttttatctt	ttttcacaat	ttattttggt	5220
tatatgttcg	tacattctta	ttaaatat	catacacttt	attgcaacta	ctttgttatt	5280
tctacatctt	agataaatgc	tgaaaaggaa	aacgatttca	ttgttcatct	aattaaataa	5340
attaaaagag	cggtttgtgt	agaaattgga	gagaactatg	ttttatatga	atcacacag	5400
tgctcgttgt	ggactgtaat	taaatgcttt	gccctctgga	acttgatttt	tgtgtatctg	5460
agattttatta	acagtgtctaa	ctgctaagga	tactgtttat	cttgttctgg	gcattggagt	5520
ttcagttttt	aaaaaattct	tgaaaatgta	ttctgtgaaa	ctactcatac	ctctcttcct	5580
gcgaattttc	tcctaagaac	taggtttggg	gtagaaatga	attgacatta	ttttctcatt	5640
tgctttgtat	ggatgaagg	atttgtaaag	ctttgctcaa	agttgtgtgc	atttgtaaac	5700
actatcatga	tattttcaat	tttatgtgta	aattttattg	tctgtttttg	gtgactctga	5760
cattaatgga	agagaatatt	ttccattaga	tttaattttt	tttcctctcc	cttctgattt	5820

```

tttttttatt ggtgttcatt tttcttttga tttaaaggat tagagaaatc tacaaatgta 5880
tgtcataaat aagcaaattt gtaaaactttt ctgaacttta gtgaaacatt tagttcacia 5940
gcataatttg gaggtgtgtt ctgtgtttac acagtagttt ggatgtacaa ttattattag 6000
tggcttttta aaaaatgaaa cagtgttaag tgaaatgtag ttcctagctt tgtactccaa 6060
gttgtcaaag catcaacaat gaaaattcga ttaggaaact ttatttaaaa tttcaggtag 6120
taatattcag tgtagttaag gccagtctta acccactgga tgaaaatcta ggactgtatg 6180
gaagtaagca aacattacat ttttaggtgg aaatagtcag ccttgcataa aaacaaggat 6240
gcgtgaaagc cttaaattcc agctcccttt tactggagtc tgtggttgtg tacaggtagt 6300
ggccaagtgt aaaatctcat caattttaag aacactcggg aaatgagtaa agaaaatgta 6360
aaattgctgc tagtcaaatc ttttggaag aatttctgga agtggtcact ttaaaaatta 6420
ttttccaccc ttgcaaaatt gccacattta aattgtttta ctggcagttc tatagtagtc 6480
cagacttttag aaaccaaaca caacaaaatg gcttggtgcc aatatggcca caacattgcc 6540
agcaaatact gccttgcat cactcagcag aggtttttgt ttataaagat gaagtcttga 6600
atactgttca ataaacttgt caaaaaataa aaaaaaaaaa 6640

```

<210> 49

<211> 3680

<212> DNA

<213> NM_006644.2| Homo sapiens heat shock 105kDa/110kDa protein 1 (HSPH1), mRNA

```

<400> 49
tgagtaaatg ccgcagattc tggaaagtgc tgatcagtgc gatacataag gctgaggaag 60
tgggacctcc ccttttgggt cggtagtcca gcgccggcgc cgggtgtgca gccgcggcag 120
agtgaggcag gcaacccgag gtgcggagcg acctgcggag gctgagcccc gcttttctccc 180
agggtttctt atcagccagc cgccgctgtc cccgggggag taggaggctc ctgacaggcc 240
gcggctgtct gtgtgtcctt ctgagtgtca gaggaacggc cagacccgcg gggccggagc 300
agaacgcggc cagggcagaa agcggcggca ggagaagcag gcagggggcc ggaggacgca 360
gaccgagacc cgaggcggag gcggaccgcg agccggccat gtcggtggtg gggttggacg 420
tgggctcgca gagctgctac atcgcggtag cccggggccg gggcatcgag accatcgcca 480
atgagttcag cgaccggtgc accccgtcag tcatatcatt tggatcaaaa aatagaacaa 540
tcggagttgc agcaaaaaat cagcaaatca ctcatgcaaa caatacgggtg tctaacttca 600
aaagatttca tggccgagca ttcaatgacc ctttcattca aaaggagaag gaaaacttga 660
gttacgattt ggttccattg aaaaatggtg gagttggaat aaaggtaatg tacatgggtg 720
aagaacatct atttagtgtg gagcagataa cagccatggt gttgactaag ctgaaggaaa 780

```

ctgctgaaaa	cagcctcaag	aaaccagtaa	cagatttgtgt	tatttcagtc	ccctccttct	840
ttacagatgc	tgagaggcga	tctgtgttag	atgctgcaca	gattgttggc	ctaaactgtt	900
taagacttat	gaatgacatg	acagctgttg	ctttgaatta	cggaatttat	aagcaggatc	960
tccaagcct	ggatgagaaa	cctcggatag	tggtttttgt	tgatatggga	cattcagctt	1020
ttcaagtgtc	tgcttgtgct	tttaacaagg	gaaaattgaa	ggtactggga	acagcttttg	1080
atccttttct	aggaggaaaa	aacttcgatg	aaaagttagt	ggaacatttt	tgtgcagaat	1140
ttaaaactaa	gtacaagttg	gatgcaaaat	ccaaaatacg	agcactccta	cgtctgtatc	1200
aggaatgtga	aaaactgaaa	aagctaata	gctctaacag	cacagacctt	ccactgaata	1260
tcgaatgctt	tatgaatgat	aaagatgttt	ccggaaagat	gaacaggtca	caatttgaag	1320
aactctgtgc	tgaacttctg	caaaagatag	aagtaccctt	ttattcactg	ttggaacaaa	1380
ctcatctcaa	agtagaagat	gtgagtgcag	ttgagattgt	tggaggcgct	acacgaattc	1440
cagctgtgaa	ggaaagaatt	gccaaattct	ttggaaaaga	tattagcaca	acactcaatg	1500
cagatgaagc	agtagccaga	ggatgtgcat	tacagtgtgc	aatactttcc	ccggcattta	1560
aagttagaga	atcttccgtc	acagatgcag	ttccttttcc	aatatctctg	atctggaacc	1620
atgattcaga	agatactgaa	ggtgttcatt	aagtctttag	tcgaaaccat	gctgctcctt	1680
tctccaaagt	tctcaccttt	ctgagaaggg	ggccttttga	gctagaagct	ttctattctg	1740
atccccaagg	agttccatat	ccagaagcaa	aaataggccg	ctttgtagtt	cagaatgttt	1800
ctgcacagaa	agatggagaa	aaatctagag	taaaagtcaa	agtgcgagtc	aacacccatg	1860
gcattttcac	catctctacg	gcattctatg	tggagaaagt	ccaactgag	gagaatgaaa	1920
tgtcttctga	agctgacatg	gagtgtctga	atcagagacc	accagaaaac	ccagacactg	1980
ataaaaatgt	ccagcaagac	aacagtgaag	ctggaacaca	gccccaggta	caaactgatg	2040
ctcaacaaac	ctcacagtct	cccccttcac	ctgaacttac	ctcagaagaa	aacaaaatcc	2100
cagatgctga	caaagcaaat	gaaaaaaaaa	ttgaccagcc	tccagaagct	aaaaagccca	2160
aaataaagg	ggtgaatgtt	gagctgccta	ttgaagccaa	cttgggtctg	cagttaggga	2220
aagaccttct	taacatgtat	attgagacag	agggttaagat	gataatgcaa	gataaattgg	2280
aaaaagaaag	gaatgatgct	aaaaatgcag	ttgaggaata	tgtgtatgag	ttcagagaca	2340
agctgtgtgg	accatatgaa	aaattttatat	gtgagcagga	tcatcaaaat	tttttgagac	2400
tcctcacaga	aactgaagac	tggctgtatg	aagaaggaga	ggaccaagct	aaacaagcat	2460
atgttgacaa	gttggaagaa	ttaatgaaaa	ttggcactcc	agttaaagtt	cggtttcagg	2520
aagctgaaga	acggccaaaa	atgtttgaag	aactaggaca	gaggctgcag	cattatgcca	2580
agatagcagc	tgacttcaga	aataaggatg	agaaatacaa	ccatattgat	gagtctgaaa	2640
tgaaaaaagt	ggagaagtct	gttaatgaag	tgatggaatg	gatgaataat	gtcatgaatg	2700
ctcaggctaa	aaagagtctt	gatcaggatc	cagttgtacg	tgctcaggaa	attaaaacaa	2760

```

aatcaagga attgaacaac acatgtgaac ccgttgtaac acaaccgaaa ccaaaaattg 2820
aatcacccaa actggaaaga actccaaatg gcccaaatat tgataaaaag gaagaagatt 2880
tagaagacaa aaacaatttt ggtgctgaac ctccacatca gaatggtgaa tgttacccta 2940
atgagaaaaa ttctgttaat atggacttgg actagataac cttaaattgg cctattcctt 3000
caattaataa aatattttttg ccatagtatg tgactctaca taacatactg aaactattta 3060
tattttcttt ttttaaggata tttagaaatt ttgtgtatta tatggaaaaa gaaaaaaagc 3120
ttaagtctgt agtctttatg atcctaaaag ggaaaattgc cttggtaact ttcagattcc 3180
tgtggaattg tgaattcata ctaagctttc tgtgcagtct caccatttgc atcactgagg 3240
atgaaactga cttttgtctt ttggagaaaa aaaactgtac tgcttgttca agagggctgt 3300
gattaaaatc ttttaagcatt tgttcctgcc aaggtagttt tcttgcatth ttgctctccat 3360
tcagcatgtg tgtgggtgtg gatgtttata aacaagacta agtctgactt cataagggct 3420
ttctaaaacc atttctgtcc aagagaaaat gactttttgc tttgatatta aaaattcaat 3480
gagtaaaaca aaagctagtc aaatgtgtta gcagcatgca gaacaaaaac tttaaacttt 3540
ctctctcact atacagtata ttgtcatgtg aaagtgtgga atggaagaaa tgtcgatcct 3600
gttgtaactg attgtgaaca cttttatgag ctttaaaata aagttcatct tatggtgtca 3660
tttctaaaaa aaaaaaaaaa 3680

```

<210> 50

<211> 3349

<212> DNA

<213> NM_004602.1| Homo sapiens staufen, RNA binding protein (Drosophila) (STAU), transcript variant T4, mRNA

```

<400> 50
acttcctgcc gggctgcggg cgcctgagcg ctcttcagcg tttgcgcggc ggctgcgcgt 60
ctctctcggc tcccgtttcc tttgaccgcc tcccccccc ggcccggcgg cgcccgccctc 120
ctccacggcc actccgcctc ttccctccct tcgtcccttc ttctctctcc ttttttcctt 180
cttccttccc ctctcgcgcg ccaccgcca ggaccgccgg ccgggggacg agtccggagc 240
agcagccagc agcagccagg tggagtthtt ctcttgctgc ccaggctgga gtgcagtggc 300
gtgatctcgg ctactgcaa cctccacctc ccaggtcagc gatthttcca cttcagcctc 360
ccgataagct gagattacag gagthttatta accacttaac ctctcagaac tgaacaaaga 420
caacattgth cctggaacgc cctctthtta aaaaagaaag cataaccctt actgtagaac 480
taaatgcact gtgcatgaaa cttggaaaaa aaccaatgta taagcctgth gacccttact 540
ctcggatgca gtccacctat aactacaaca tgagaggagg tgcttatccc ccgagggtact 600
tttaccatt tccagttcca ctttactth atcaagtgga actthctgtg ggaggacagc 660

```


aattttaatgg	caaaggaaaag	acaagacagg	ctgcgaaaca	cgatgctgct	gccaaagcgt	720
tgaggatcct	gcagaatgag	cccctgccag	agaggctgga	ggtgaatgga	agagaatccg	780
aagaagaaaa	tctcaataaa	tctgaaataa	gtcaagtgtt	tgagattgca	cttaaacgga	840
acttgccctgt	gaatttcgag	gtggcccggg	agagtggccc	accccatg	aagaactttg	900
tgaccaaggt	ttcggttggg	gagtttgttg	gggaaggtga	agggaaaagc	aagaagattt	960
caaagaaaaa	tgccgccata	gctgttcttg	aggagctgaa	gaagttaccg	cccctgcctg	1020
cagttgaacg	agtaaagcct	agaatcaaaa	agaaaacaaa	acccatagtc	aagccacaga	1080
caagcccaga	atatggccag	gggatcaatc	cgattagccg	actggcccag	atccagcagg	1140
caaaaaagga	gaaggagcca	gagtacacgc	tcctcacaga	gcgaggcctc	ccgcgccgca	1200
gggagtttgt	gatgcagggt	aaggttggaa	accacactgc	agaaggaaacg	ggcaccaaca	1260
agaagggtggc	caagcgcaat	gcagccgaga	acatgctgga	gatccttggt	ttcaaagtcc	1320
cgcagcggca	gcccaccaa	cccgcactca	agtcagagga	gaagacaccc	ataaagaaac	1380
caggggatgg	aagaaaagta	accttttttg	aacctggctc	tggggatgaa	aatgggacta	1440
gtaataaaga	ggatgagttc	aggatgcctt	atctaagtca	tcagcagctg	cctgctggaa	1500
ttcttcccat	ggtgcccag	gtcgcccagg	ctgtaggagt	tagtcaagga	catcacacca	1560
aagattttac	cagggcagct	ccgaatcctg	ccaaggccac	ggtaactgcc	atgatagccc	1620
gagagttgtt	gtatgggggc	acctcgccca	cagccgagac	catttttaaag	aataacatct	1680
cttcaggcca	cgtaccccat	ggacctctca	cgagaccctc	tgagcaactg	gactatcttt	1740
ccagagtcca	gggattccag	gttgaataca	aagacttccc	caaaaacaac	aagaacgaat	1800
ttgtatctct	tatcaattgc	tcctctcagc	cacctctgat	cagccatggt	atcggcaagg	1860
atgtggagtc	ctgccatgat	atggctgcgc	tgaacatctt	aaagttgctg	tctgagttgg	1920
accaacaaag	tacagagatg	ccaagaacag	gaaacggacc	aatgtctgtg	tgtgggaggt	1980
gctgaacctt	ttctggccat	gaaccattat	aaaatcccaa	catatatact	gaaaatactg	2040
aaactgcttt	gaaaatttgg	aatttctgat	acctccagtg	ggccgagaga	cacggtgggt	2100
aaaggatgtg	ggcagcagca	gggaagacaa	cagaaacaca	aggaggcggc	tgtggccggc	2160
tggactgtgc	tggggtttgt	tgtgatggcc	actcggtgac	ctggcgggtcc	ctacgcaata	2220
gcagctgcct	gtggggaaga	agggctgccc	agccagctgg	ttctcccggg	acaccagcag	2280
atccacaccc	tgggcacctc	cgtgtttggt	cttttttttc	ccctgtgtga	aagaagaaac	2340
ggcacgaccc	cttctcaagc	tggctcactc	agacacattg	ggacaaaccc	tggacagcca	2400
tgccagagag	aggcctttga	ccggccccag	agctaaaagc	accagagaaa	atcaaagtct	2460
tcctactcag	cgtgacccaa	cttttctagt	gtgccacggc	cccaccacct	cctgcagtac	2520
ccacaccatc	accactgctt	tctcttccaa	cagtgatctg	tattcttagt	ttcattattt	2580
tcttttgatt	gatatgacac	tatataaaat	tttcatttga	gaatttctca	attgtatcta	2640
gttaaatagc	acagtttgga	aacttgtctg	agactgactt	tatcaataat	ctaaccgaca	2700

```

aagatcatat ccatgtgtat gtgggtagac atttttatatt cattgactaa cccaggacag 2760
tttcagtgat gcaaattgtg tgccctctgg ttcagctgaa acagtcctgg actttcaaaa 2820
accttgaata agtctccac agttgtataa attggacaat ttaggaattt taaacttttag 2880
atgatcattt ggttccattt ttatttcatt tttatatttg ttaatgcaaa caggacttaa 2940
atgaactttg atctctgttt taaagattat taaaaaacat tgtgtatcta tacatatggc 3000
tcttgaggac ttagctttca ctacactaca ggatatgata tccatgtagt ccatataaac 3060
ctgcagagtg attttccaga gtgctcgata ctgttaatta catctccatt agggctgaaa 3120
agaatgacct acgtttctgt atacagctgt gttgcttttg atgttggtt actgtacaca 3180
gaagtgtgtg cactgaggct ctgcgtgtgg tccgtatgga aaacctggta gccctgagag 3240
ttaagtactg cttccattca ttgtttacgc tggaattttt ctccccatgg aatgtaagta 3300
aaacttaagt gtttgtcatc aataaatggt aataactaaa aaaaaaaaaa 3349

```

<210> 51

<211> 402

<212> DNA

<213> NM_021246.2| Homo sapiens lymphocyte antigen 6 complex, locus G6D (LY6G6D), transcript variant 1, mRNA

```

<400> 51
atgaaacccc agtttggttg gatcttgctc agctccctgc taggggctgc cttgggaaac 60
cgaatgcggt gctacaactg tgggtggaagc cccagcagtt cttgcaaaga ggccgtgacc 120
acctgtggcg agggcagacc ccagccaggc ctggaacaga tcaagctacc tggaaacccc 180
ccagtgacct tgattcacca acatccagcc tgcgtcgag cccatcattg caatcaagtg 240
gagacagagt cgggtgggaga cgtgacttat ccagcccaca gggactgcta cctgggagac 300
ctgtgcaaca gcgccgtggc aagccatgtg gcccctgcag gcattttggc tgcagcagct 360
accgccctga cctgtctctt gccaggactg tggagcggat ag 402

```

<210> 52

<211> 3248

<212> DNA

<213> NM_007236.3| Homo sapiens calcium binding protein P22 (CHP), mRNA

```

<400> 52
accacccctg ggttccctcc cgggtccgca gtggaaacac tgccctctcc cttcttgacc 60
cctagccctt ctttccctcc ctcttccct cctgtcgccg tctcttctgg cgccgctgct 120
cccggaggag ctcccggcac ggcgatgggt tctcgggcct ccacgttact gcgggacgaa 180

```

gagctcgagg agatcaagaa ggagaccggc ttttccacac gtcaaatacac tcgcctctac 240
 agccggttca ccagcctgga caaaggagag aatgggactc tcagccggga agatttccag 300
 aggattccag aaacttgccat caaccactg ggggaccgga tcatcaatgc cttctttcca 360
 gagggagagg accaggtaaa cttccgtgga ttcattgcga ctttggttca tttccgcccc 420
 attgaggata atgaaaagag caaagatgtg aatggaccgc aaccactcaa cagccgaagc 480
 aacaaactgc acttttgcttt tcgactatat gatttggtata aagatgaaaa gatctcccgt 540
 gatgagctgt tacaggtgct acgcatgatg gtcggagtaa atatctcaga tgagcagctg 600
 ggcagcatcg cagacaggac cattcaggag gctgatcagg atggggacag tgccatatct 660
 ttcacagaat ttgttaaggt tttggagaag gtggatgtag aacagaaaaat gagcatccga 720
 tttcttcact aaaggagacc aaactgttcc ttgcggtcta gtatttaaga actggaactt 780
 gaaagtctc cttctaccaa ctccacctcc acccctcat tccccttctc ccaaagtact 840
 actgctgttg catgacaacc ccaaataatgt tctgtcaaca caaacctgcc tttggtgtat 900
 aaacagggca ttacagaatg gtacacccta tatatttctg ttcagtatcc attcactagt 960
 tcttcattta taaatatcat cttccccatt ctgctgctga atgccacaca tccatccagt 1020
 ctgagaaagt gagagaggca atcatgcaa gaacaagcca gcaaagctct ttcaccagat 1080
 gtagactgta gccctgctgc cttccctcca gcgagtctgc cagcatgctt cttcatcctt 1140
 tttatatgtt ctttgcttcc tacttccctg tcttccaaca tactgttcac ttactctggc 1200
 agtctttctg cttttcatta agcctcaaaa tctcctctgt tctacttggc accacaagct 1260
 atgtcctata tatgtatttc tgacttggca ggatagttca ggggtctggc agtttttatt 1320
 taccttcatt attaaatggg cctctgggat gttgcctctt caggagcttt ttggtaatca 1380
 atacttctct cagaagtatg agaccatcct ctgcactctg ctctgtcatc aaaggctgct 1440
 ggggtggagat accctttttg aaagggtggc ttggtgagag gtatggagcc aagtcttcta 1500
 ggttgcttgc ccacatcact ctatctctgg cctctgattc tcaactttgt acctgtgtgg 1560
 ctctcttctg tagtgcaatg ttgactgttg aaaaagcagc agtatgctta caggtttgct 1620
 tagtttgggg acaccgttac caccagaatg gctgctctga caatatgcct agggactttc 1680
 tcatggcttt tatttaataa ggaggctggg caccctataa agcctcatgc attcacacct 1740
 ttgcagcatg gtttatgcct cagtgttatg tgcactggaa tgttttccac ttcacatttc 1800
 caagtagaaa tattagtgtt acggaagtgc ctaatatccc agtccaaatt tttttttttt 1860
 tttttttttt tttttgagac agagtcttgc tctgtcaccg aggctggagt gcagtgggtg 1920
 gatcgctcac tgcaacctca gcctcctgga ttttaagtgt tctcctgcct cagcctccca 1980
 agtagctggg attacagggtg tgcaccacca tgcccggtta attttttgta ttttttagtg 2040
 agacagggtt tcaccatgtt ggccaggctg gtctcgaact cctgacctcg tgatccgcct 2100
 gcctcagcct cccaaagtgc tgggattaca ggtgtgagcc accacgcctg gccccagtcc 2160

```

aaaatattta aagattgttt ccttagtgtc ttgaagtttt gcacaaaatt cttttttttg 2220
agatggagtc tcactctgtc acccaggctg gagtgacgtg gcgtgatctt ggctcactgc 2280
aacctctgcc tcctgggttc aagcaattct cccacctcag cctcccaagt agctgggatt 2340
acagacgtgt gccaccatac ctgggtaatt tttgcatttt tagtggagag ggagtttcac 2400
catgttggtc aggttgggtc tgaactcctg acctcaggtg atcctcctgc ctcggcctcc 2460
caaagtgtct ggattacagg catgagccac cgtgctcagc cgcaaaattc tttatgaatt 2520
ttacacttgg caaatgttaa tgacggaagc catagtctgc tcctaataca tgtccaaagc 2580
attgactgtt gtgtcattag ctgcctgggt acattagctc cctggcttct tgtttagacc 2640
actgctaata ccttaaaaaa aagagggtctg gcactagtag cacaacctaa ggtggcatta 2700
cagatctttg agcgagccac agcaactttt ctgccaagtc agcttagttt agacttcagt 2760
gaatcaggct attgctatcc taatgtatgt ctctatgagt gtatttagcc acacatctgc 2820
ccttggttga ctttctgact cattgcttgc ttgcttggtt ccttgctttg gaaaactatt 2880
gaagattgct aaaaaatacc actgcaaagt gatggaaaag ggtggagaac aggggagtag 2940
ccaggctgga tggctcaaat ataaatgaat gaggaattct ttatgaagta tcagtcagat 3000
tttatgatta agtgatgtaa tataggaatt atgtaaaagg gaagaatgtc tgatactgat 3060
ctattagaga ggtactttag aggcttcttg attggcataa agttcctaag gttatagatt 3120
ttccccctt ttggctgtat agcaaagtgt ttaatccac ggttggtcct tattgttcca 3180
ttaaattgt atcttcgatc catcaataaa tacttggtgtg tgaacaaaaa aaaaaaaaaa 3240
aaaaaaaaa 3248

```

<210> 53

<211> 3098

<212> DNA

<213> NM_003671.2| Homo sapiens CDC14 cell division cycle 14 homolog B (S. cerevisiae) (CDC14B), transcript variant 1, mRNA

```

<400> 53
cacggaacag ccctcctggg gtccccacga gccgcgtcct gctgtgcccc ggcgcctacg 60
cagcagcggc cgcgcccgcg gtgggcacgc acggttaccc cgggcagctc cggccgccag 120
ctgcagcccc gtcgcctcgg ccgcgccagc cggctgcggg cacctggggg cgggctgggg 180
gcgccggccg cggcaggagg cgctgtagcg agggctgcgg cgccggtcct gcggcgcccg 240
cgggaggcag cggggcaggc gctgtgggcc gggctcctcc tccggctcct gcgcgaccgc 300
ctcccgcggg gctctgccgg cgcccgcgt cccgcagcg ccgctctgcg cccgcgccc 360
cgagcgcccc cgcggggctg gcgggagcct cggcgggcgc gcgggcgcgc ggggccatgg 420
tcgtggcccc ctgacgggac gcggccgcct ccatgaagcg gaaaagcgag cggcggtcga 480

```

gctgggcccgc	cgcgcccccc	tgctcgcggc	gctgctcgtc	gacctcgccg	ggtgtgaaga	540
agatccgcag	ctccacgcag	caagacccgc	gccgccggga	ccccaggac	gacgtgtacc	600
tggacatcac	cgatcgccctt	tgttttgcca	ttctctacag	cagaccaaag	agtgcacaa	660
atgtacatta	tttcagcata	gataatgaac	ttgaatatga	gaacttctac	gcagattttg	720
gaccactcaa	tctggcaatg	gtttacagat	attgttgcaa	gatcaataag	aaattaaagt	780
ccattacaat	gttaaggaag	aaaattgttc	atcttacttg	ctctgatcag	agaaaaaag	840
caaatgctgc	cttccttggt	ggatgctaca	tggttatata	tttggggaga	acccagaag	900
aagcatatag	aataattaatc	tttgagaga	catcctatat	tcctttcaga	gatgctgcct	960
atggaagtgtg	caatttctac	attacacttc	ttgactgttt	tcatgcagta	aagaaggcaa	1020
tgcagtatgg	cttccttaat	ttcaactcat	ttaaccttga	tgaatatgaa	cactatgaaa	1080
aagcagaaaa	tggagattta	aattggataa	taccagaccg	atttattgcc	ttctgtggac	1140
ctcattcaag	agccagactt	gaaagtgggt	accaccaaca	ttctcctgag	acttatattc	1200
aatatittaa	gaatcacaat	gttactacca	ttattcgtct	gaataaaaagg	atgtatgatg	1260
ccaaacgctt	tacggatgct	ggcttcgatc	accatgatct	tttctttgcg	gatggcagca	1320
cccctactga	tgccattgtc	aaagaattcc	tagatatctg	tgaaaatgct	gaggggtgcca	1380
ttgcagtaca	ttgcaaagct	ggccttggtc	gcacgggcac	tctgatagcc	tgctacatca	1440
tgaagcatta	caggatgaca	gcagccgaga	ccattgcgtg	ggtcaggatc	tgcacacctg	1500
gctcgggtgat	tgggcctcag	cagcagtttt	tggtgatgaa	gcaaaccaac	ctctggctgg	1560
aaggggacta	ttttcgtcag	aagttaaagg	ggcaggagaa	tggacaacac	agagcagcct	1620
tctccaaact	tctctctggc	gttgatgaca	tttccataaa	tggggtcgag	aatcaagatc	1680
agcaagaacc	cgaaccgtac	agtgatgatg	acgaaatcaa	tggagtgaca	caaggtgata	1740
gacttcgggc	cttgaaaagc	agaagacaat	ccaaaacaaa	cgctattcct	ctcactctct	1800
ccatttcaag	gactaaaaca	gtcttgcggt	aagtaaaaac	ctgtgaccag	agctgaagga	1860
agactctagg	actgaaaact	gcaacagaaa	ttagcacaat	ttgaaaacaa	aacaaaattg	1920
caaaagcctt	agttgctttt	tccacctaa	aagttgatca	atggagaaaa	tgtccactgg	1980
agtttgaata	atgaactttg	agtttgggtg	caagcaaattg	actcagagaa	gggtccagct	2040
ctcaagctga	atgacaaaca	tgctgttgta	aatttagtct	cagggtgtaa	taccaagcc	2100
ctctgggtacc	caggagctg	gctgggtctg	ggtgcatgtg	tgtccctgtg	atggcaatca	2160
ttgtagtgtg	tggccttcag	aagaattgag	gatctgatgg	aggtttttta	tgtattttatt	2220
ttctgttcac	cttgtgacct	tgtgtcaaaa	tttataaaga	tacaaaaggc	attactgaaa	2280
tggtactttc	tgtaatgtga	tactatttgg	cttaatcatc	ttcacttgac	tatttgtaat	2340
actgttgtaa	tgttaactct	gttaagtacc	caagctgctt	gtcttccacc	aaagagtgtc	2400
ttattaacaa	gaatctgtga	aaatcacatt	taaacactgt	tgcatgttgt	aagaccaggt	2460
ggtaccttag	taacctaata	cttgcaagag	aataattaatg	gtagctttag	aagactcagg	2520

```

aggagaaact gacttcagag ttggaagatg ttgcaagtcg ttcctttttc tgtccttcag 2580
ggactgaaga actgggagggc tgcccatgtt ttgggtgcca gtcatacaaa ttaaaatcat 2640
atttccttcc atgaatggaa gaaacacact attgggtttt ccccttgga acagcaatcc 2700
caaataatgt cggcttacaa aaaaaaaaaaag ttaccacttt ttagaggtcc ttccctgtaa 2760
cattggatgt tttttttccc ttatgagatc cacctaaggc cattgacgtg gcctgcatc 2820
tcagtacaa tgatctgctt ctggatctca ctgttgctt tggtaggga acacagagt 2880
cttctccgc agccctactg gaacacagca gagtctgtc catgaagcag ttacagaaac 2940
agaattgatg tgctgctaaa aaaaaaaaaa aaaatggggc ccgggggggc gtccgccggc 3000
cctgccccgc gccgggtgaa taccactact ctgatcggtt tttcactgac ccggtgaggg 3060
gggggggcga gccccgaggg gctctcgctt ctggcgcg 3098

```

<210> 54

<211> 7850

<212> DNA

<213> XM_372063.2| PREDICTED: Homo sapiens similar to epiplakin (LOC389697), mRNA

```

<400> 54
atggcagcca cgctgggagc cggcacgccc cccaggcccc aggccaggag catagctggg 60
gtgtatgtgg aggcctcggg ccaggcccag agtgtctacg ccgccatgga gcagggcctc 120
ctgcctgctg ggctcgggca ggctctgcta gaggcccagg cagccactgg gggcctgggtg 180
gacctcgccc ggggccagct gctccctgtg tccaaggccc tgcagcaggg tctggtgggg 240
ctggagctga aggagaagct gctggccgct gagcgtgcca ctacgggcta tcctgacccc 300
tacggcggtg agaagctggc cctctttcag gccatcggga aggaggtgtt ggacagggcc 360
ctggggcaga gctggctgga ggtccaaactg gccactgggg gcctgggtgga ccccgcccag 420
ggagtgtctg tggcccctga gccagcctgc caccagggcc tcctggaccg ggagacatgg 480
cacaagctgt cagagcttga gcctggcaca ggtgacctgc gcttcctcga cccaacacg 540
ctggagcggc tgacatacca ccagctgctg gaaaggtgtg tgcgtgcccc cggctcgggg 600
ctagccttgc tgcccctcaa gatcaccttc cgctccatgg gcggggcggt gagtgcagct 660
gagctgctgg aggtgggcat cctggacgag caggctgtgc agggctctgc ggagggcagg 720
ctggccgcag tggacgtgag tgcacgtgcc gaggtgcggc gctacctgga gggtagcggc 780
agcgtggccg gggttgtcct gctgcccga ggccacaaga agagcttttt ccaggctgcc 840
accgagcacc tgctcccaat gggcaccgcg ctgccactcc tagaggcca ggctgccacc 900
cacaccctgg tggaccccat cacaggccag cggctgtggg tagacgaggc agtcagggcg 960
ggcctggtca gccagagct ccatgagcag ctctggtg ccgagcaggc cgtgacaggg 1020

```

caccacgacc	ccttcagtgg	ctcccaaadc	ccccttttcc	aggccatgaa	gaaggggcta	1080
gtggacaggc	cactggcact	gcggctcttg	gatgcccagc	tggccacagg	cgggctggtc	1140
tgtccagcac	gcaggctccg	gctgcccctg	gaggccgccc	tgcgctgcgg	ctgcctggat	1200
gaagacactc	agcggcagct	ctcgcaggct	ggcagcttct	cagacggcac	gcacggcggc	1260
ctgcgctatg	aacagctgct	ggccctctgt	gtcaccgacc	cagagaccgg	gcttgccttc	1320
ctgccactct	caggggggacc	ccggggaggg	gagccccagg	gacccccatt	catcaagtac	1380
agcactcggc	aggccctgag	cacggccaca	gccaccgtct	ctgtggggaa	gttccggggc	1440
cggcccgtgt	ccctctggga	gctgctcttc	tctgaggcca	tctcctcaga	gcagagggcg	1500
atgctggccc	agcagtacca	ggaagggacc	ctctccgtgg	agaagctggc	cgctaagctg	1560
agcggcacc	tcgagcaggc	tgcagccact	gccagggtca	ccttttctgg	gctgagggac	1620
accgtgacac	caggagagct	gctgaaagcc	gagatcatcg	accaggacct	gtacgagcgg	1680
ctggagcatg	gacaggccac	agccaaggat	gtgggcagcc	tggcctcggt	gcagaggtac	1740
ctgcagggta	cgggctgcat	tgctggcctg	ctgctccctg	gctcccagga	acgcctgagc	1800
atctatgagg	cccgatgcaa	ggggctcctc	cggcccggca	ctgccctcat	ccttctggag	1860
gcacaagctg	ccacaggctt	catcatcgac	ccaaaagcaa	acaaggggca	ctccgttgag	1920
gaggcactga	gggctgctgt	cattgggcct	gatgtgttcg	cgaagctgct	gtcggctgag	1980
cgcgctgtca	ctggctacac	tgacccttac	accgggcagc	agatctccct	cttccaggcc	2040
atgcagaagg	gcctcatcgt	ccgggagcac	ggcatccgcc	tgctggaggc	ccagatcgcc	2100
acgggcggcg	tcacgaccc	cgtgcacagc	caccgcgtgc	ccgtggacgt	ggcctaccgg	2160
cgcggctact	tcgatcagat	gctgaacttg	atcctgttgg	acccttctga	cgacaccaag	2220
ggcttcttcg	acccaacac	gcacgagaac	ctcacgtacc	tgcagcttct	ggagcgtgt	2280
gtgcgtgacc	ccgagacggg	cctgtacctc	ctgccactca	gcagcacgca	gtccccgctg	2340
gtggacagtg	ccaccagca	ggccttccag	aacctgctgc	tctccgtgaa	gtatggacgg	2400
tttcaggggc	agagggctct	cgcgtgggag	ctgatcaact	ctgagtactt	cagcgagggc	2460
cgcaggaggc	agctgctgcg	tcgctaccgg	cagcgcgagg	tcacgctggg	gcaggtggca	2520
aagctgctgg	aggcggagac	gcagagacag	gcggacatca	tgctgcccgc	actgaggagc	2580
cgggtcaccg	tccaccagct	cctggaggcc	ggtatcattg	accagcagct	gttggaccaa	2640
gtgctggccg	ggacaatcag	cccggaggcc	ctcctactca	tggacggcgt	ccgcaggtac	2700
ctgtgcggcc	tgggagctgt	gggcgggtgtg	cggctgctgc	cctctggcca	gcggctcagc	2760
ctctaccagg	ccatgaggca	gaagctgctg	gggcccaggg	tggccctggc	cctgctggag	2820
gccaggcgcg	ccaccggaac	catcatggac	cctcacagcc	cagagagcct	ctcgggtggat	2880
gaggccgtgc	gcaggggtgt	ggtggggccg	gagctgtatg	gcaggctgaa	gcgggctgag	2940
ggtgccattg	ctggcttcag	agacccttc	tctgggaagc	aggtgtctgt	gttccaggcc	3000

atgaagaaag	gtctcatccc	ttgggagcaa	gctgcccgcc	tCctggaggc	tcaagtggcc	3060
acaggaggga	tcattgaccc	caccagccac	caccacctcc	cCatgccagt	ggccattcag	3120
cgtggctatg	ttgaccagga	gatggagaca	gccttggtcca	gCtcctccga	aaccttcccc	3180
acaccggacg	gccaggggcg	cacgagctat	gcccagctcc	tGgaggagt	ccccagggat	3240
gagacttctg	gccttcacct	cctgcccctg	ccagaaagt	cTcctgccct	ccccaccgag	3300
gagcaggtcc	agaggagcct	gcaggccgtg	ccggggggcca	aGgatggcac	atccctctgg	3360
gacctgtca	gctcctgcc	cttcaccgag	gagcaacgga	gGggcctgct	ggaggacgtg	3420
caggagggga	ggaccactgt	gccacagctg	ctagcctctg	tGcagagggt	ggtacaggag	3480
accaagctcc	tggcccaggc	ccgcgtcatg	gtgcccggcc	cAcgggggtga	ggtacccgct	3540
gtctggctgc	tggatgctgg	catcatcacc	caggagaccc	tTgaggccct	ggctcagggc	3600
acgcagtcgc	ccgcccagg	cgccgagcag	ccggcggtga	aGgcctgcct	gtggggcaca	3660
ggctgcgtgg	ccggtgtgct	gctacagccc	tctggggcca	aGgccagcat	cgcccaggcc	3720
gtgagggatg	gcctcctgcc	cacaggcctg	ggccagaggc	tGctggaagc	ccagggtggca	3780
tctggcttcc	ttgttgaccc	cctgaacaac	cagagactgt	cagtggagga	cgcggttaag	3840
gtcggcctgg	tgggcaggga	gctgagttag	cagctcgggc	aGgccgagag	ggcggcggcc	3900
gggtacccag	atccctactc	tagggcctcc	ctctctctgt	gGcaggccat	ggagaagggg	3960
ctcgtgccac	agaacgaggg	cttgcccctc	ctgcagggtg	aGctggccac	agggggtgtg	4020
gtggaccctg	tccacggggt	gcacctgccc	caggcggcag	cCtgcagact	cggccttctg	4080
gacacacaga	cgagccagg	gctgactgca	gttgacaagg	aCaacaagtt	cttctttgac	4140
cccagtgcgc	gggaccagg	gacctaccag	cagctcagg	aGcgctgcgt	gtgcgactcc	4200
gagaccggat	tgttgctgtt	gccactgccc	tcagacacag	tGcttgagg	ggacgaccac	4260
accgcggtgg	ctctgagggc	catgaagggt	cccgtcagca	cagggagggt	taaggggtgt	4320
agcgtgtcac	tctgggacct	gctgctctcc	gaatacgttg	gCgctgacaa	gcggcgggag	4380
ctggtggcac	tctgtcggtc	tgggagggct	gcggccctgc	gGcagggtgt	cagcgcagtc	4440
accaccctgg	tcgaggctgc	agagaggcag	cccctgcagg	cCaccttcag	agggctccgg	4500
aagcaggtgt	cagccaggga	cctgttcagg	gcgcagctga	tCagcaggaa	gacgctggac	4560
gagctgagcc	aggggacaac	gactgtgaag	gaggtggcgg	aGatggacag	cgtgaagcgg	4620
tccctggagg	gaggcaactt	cattgccggg	gtccttatcc	agggcaccca	ggagaggatg	4680
agcatcccag	aggccctgag	gaggcacatc	ctgcggcctg	gCacagccct	ggtgctgctg	4740
gaggcacagg	cagctaccgg	cttcatcatc	gaccccgtgg	agaaccggaa	gctgaccgtg	4800
gaggaggcgt	tcaaagcagg	aatgttcggg	aaagaaacct	aCgtgaagct	gctgtcggcc	4860
gagcgcgccg	tcaccggcta	caccgacccc	tataccgggc	aGcagatctc	cctcttccag	4920
gccatgcaga	aggacctcat	cgtccgggag	cacggcatcc	gCctgctgga	ggcccagatc	4980
gccacgggcg	gcatcatcga	ccccgtgcac	agccaccgcg	tGcccgtgga	cgtggcctac	5040

cgctgcggct	acttcgacga	ggagatgaac	cgcattcctgg	cggacccccag	cgacgacacc	5100
aagggttct	tcgaccccaa	cacgcacgag	aacctcacgt	acctgcagct	tctggagcgc	5160
tgtgtggagg	accccgagac	gggcctgtac	ctgctacaaa	tcataaagaa	aggagaaaac	5220
tacgtgtaca	tcaatgaggc	cacgagacac	gtgttgcaat	ccagaactgc	aaaaatgcgc	5280
gtggggaggt	ttgctgacca	ggtggtctct	ttctgggacc	tgctgtcctc	tccatacttc	5340
acagaggaca	ggaagcggga	gctcatccag	gagtatggag	cccagagtgg	gggcctggag	5400
aaattgctgg	aatcatcac	cacgacaatt	gaagaaacag	agacgcaaaa	ccaaggcatc	5460
aaagtggcgg	ccatcagagg	ggaggtgaca	gctgcagacc	tgttcaactc	cagggtcac	5520
gatcagaaga	ccctgcacac	acttcgtgtg	gggaggactg	ggggacaggc	actcagcacg	5580
ctggagtgtg	tgaagcccta	tctggaaggc	agcggctgca	ttgcgggggt	cacggtgccc	5640
tccaccaggg	aggtcatgag	cctccatgag	gccagcagga	aggagctcat	ccctgcagca	5700
tttgcgactt	ggctgctgga	ggcgcaggcc	gccaccgggt	tcctcctgga	cccctgcacc	5760
cgccagaagc	tctctgtgga	tgaggctgtg	gatgtgggct	tggtgaacga	ggagctgcgg	5820
gagaggctcc	tgaaggctga	aagagctgcc	acgggctaca	gggatccggc	cacaggagac	5880
acgatcccg	tggtccaggc	catgcagaag	cagctcatcg	agaaggcgga	ggcactgagg	5940
ctgctggagg	tgcagggtgg	cacgggggggt	gtcatcgacc	cacagcacca	ccaccggctc	6000
ccactggaaa	cagcctacag	acggggctgt	ctgcacaagg	acatctatgc	gctcatttcc	6060
gaccagaagc	acatgaggaa	acggtttgtg	gacccgaaca	cgcaagagaa	ggtctcgtac	6120
cgagagctgc	aggagaggtg	ccgcccacaa	gaggacacgg	gctggctgct	gttcccagtg	6180
aacaaggctg	cacgggactc	cgagcacatc	gatgacgaga	cgagaagggc	cctggaggca	6240
gagcaagtgg	aatcacagt	gggaagggtc	agaggccaga	aaccaacact	gtgggcacta	6300
ctgaattccg	aatacgtgac	agaggagaag	aagctccagc	tggtgaggat	gtatagaaca	6360
cacaccagac	gggcactgca	gacggtagcg	cagctcatct	tagagttgat	cgagaagcag	6420
gaaaccagca	acaaacacct	gtggttccaa	ggaattagac	gacagatcac	agcttctgaa	6480
ctcctcagct	cagccataat	cacggaggaa	atgctccagg	acctggaaac	gggacggagc	6540
acgacgcaag	agctcatgga	ggacgaccgc	gtcaagcgct	acctggaggg	caccagctgc	6600
atcgcgggcg	tcctggtgcc	cgccaaggac	cagcccggcc	gccaggagaa	gatgagcatc	6660
taccaggcca	tgtggaaggg	cgtgctgcgg	cccggcacgg	ccctggtgct	gctggaggcg	6720
caggcggcca	ccggcttcgt	catcgacccc	gtgcgcaacc	tgaggctgtc	ggtggaggag	6780
gccgtggctg	cgggcgtggg	gggcggcgag	atccaggaga	agctgctgtc	ggccgagcgc	6840
gccgtcaccg	gtacaccga	cccctacacc	gggcagcaga	tctccctctt	ccaggccatg	6900
cagaaggacc	tcacgtccg	ggagcacggc	atccgcctgc	tggaggccca	gatcgccacg	6960
ggcggcgctca	tcgaccccg	gcacagccac	cgcgtgccc	tggacgtggc	ctaccggcgc	7020

```

ggctacttcg acgaggagat gaaccgcgtc ctggccgacc ccagcgacga caccaagggc 7080
ttcttcgacc ccaacacgca cgagaacctc acgtacctgc agcttctgca gagggccacc 7140
ctggaccctg agacggggct cctatttctt tctctctctc tacagtgact gggcttcctc 7200
cgtgcagttt tctgcaactc tggagaagtg gaggcatact tgtgtgtctg ggttggtttt 7260
tttttgtttt tttttttgtc attctttaat tttgttgttt taccattcg ttatctgtgg 7320
aaaacgtttt aagtgtgcat gtgacagaaa cttttccttt gtccatcgag gtgtttcata 7380
agtttttttg tgtgttttct gggtcgtcta tgtgtcatat ggttttactt ttctctcctt 7440
tttcgttttc agaacatttt tctgtctgtt ttggattcac tgcttccatt ttacagaatg 7500
tcactcttta gactctcagt ccatcatgcc atcgggtact cttgttgag tgtaattttt 7560
attacatgag gttattttccc taacgatgtg ctattcacgt tcattcttcaa actcattttc 7620
catcagccag tgtctactat ttagtgccct ggctctattt cggtcctcct ccccgggcct 7680
tccctggctg ctgtgctggc caaaagcatg ggctttattc tctccattgg ctgctgctcc 7740
accttagagg tgtgacctca ctagcgttga ctgagcgagt ctgttggtga gaagaacttt 7800
ttgtagtaat ttactaggaa aaattctgaa caagtaaaat atgaaggaaa 7850

```

<210> 55

<211> 454

<212> DNA

<213> NM_005952.2| Homo sapiens metallothionein 1X (MT1X), mRNA

```

<400> 55
tctgtcccgc tgcgtgtttt cctcttgatc gggaactcct gcttctcctt gcctcgaaat 60
ggaccccaac tgctcctgct cgcctgttgg ctctgtgccc tgtgccggct cctgcaaagt 120
caaagagtgc aaatgcacct cctgcaagaa gagctgctgc tcctgctgcc ctgtgggctg 180
tgccaagtgt gcccagggtc gcatctgcaa agggacgtca gacaagtga gctgctgtgc 240
ctgatgccag gacagctgtg ctctcagatg taaatagagc aacctatata aacctggatt 300
tttttttttt tttttttgta caaccctgac ccgtttgcta catctttttt tctatgaaat 360
atgtgaatgg caataaattc atctagacta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 454

```

<210> 56

<211> 2090

<212> DNA

<213> NM_003242.3| Homo sapiens transforming growth factor, beta receptor II (70/80kDa) (TGFB2), mRNA

<400> 56
gttggcgagg agtttctgt ttcccccgca gcgctgagtt gaagttgagt gagtcactcg 60
cgcgcacgga gcgacgacac ccccgcgcggt gcacccgctc gggacaggag ccggactcct 120
gtgcagcttc cctcggccgc cgggggcctc cccgcgctc gccggcctcc agggccctcc 180
tggctggcga gcgggcgcca catctgcccc gcacatctgc gctgccggcc cggcgcgggg 240
tccggagagg gcgcggcgcg gagcgagcc aggggtccgg gaaggcgccg tccgtgcgct 300
gggggctcgg tctatgacga gcagcgggggt ctgccatggg tcgggggctg ctcaggggcc 360
tgtggccgct gcacatcgct ctgtggacgc gtatcgccag cacgatccca ccgcacgttc 420
agaagtcggg taataacgac atgatagtca ctgacaacaa cgggtgcagtc aagtttccac 480
aactgtgtaa attttgtgat gtgagatttt ccacctgtga caaccagaaa tcctgcatga 540
gcaactgcag catcacctcc atctgtgaga agccacagga agtctgtgtg gctgtatgga 600
gaaagaatga cgagaacata aactagaga cagtttgcca tgacccaag cttccctacc 660
atgactttat tctggaagat gctgcttctc caaagtgcag tatgaaggaa aaaaaaagc 720
ctggtgagac tttcttcatg tgttcctgta gctctgatga gtgcaatgac aacatcatct 780
tctcagaaga atataacacc agcaatcctg acttgttgct agtcataatt caagtgcag 840
gcatcagcct cctgccacca ctgggagttg ccatactgtg catcatcatc ttctactgct 900
accgcgttaa ccggcagcag aagctgagtt caacctggga aaccggcaag acgcggaagc 960
tcatggagtt cagcgagcac tgtgccatca tcctggaaga tgaccgctct gacatcagct 1020
ccacgtgtgc caacaacatc aaccacaaca cagagctgct gccattgag ctggacaccc 1080
tggtggggaa aggtcgcttt gctgaggtct ataaggcaa gctgaagcag aacacttcag 1140
agcagtttga gacagtggca gtcaagatct ttccctatga ggagtatgcc tcttggaaga 1200
cagagaagga catcttctca gacatcaatc tgaagcatga gaacatactc cagttcctga 1260
cggctgagga gcggaagacg gagttgggga aacaatactg gctgatcacc gccttccacg 1320
ccaagggcaa cctacaggag tacctgacgc ggcagtgcat cagctgggag gacctgcgca 1380
agctgggag ctccctcgcc cgggggattg ctcacctcca cagtgtcac actccatgtg 1440
ggaggcccaa gatgcccatc gtgcacaggg acctcaagag ctccaatatc ctcgtgaaga 1500
acgacctaac ctgctgcctg tgtgactttg ggctttccct gcgtctggac cctactctgt 1560
ctgtggatga cctggctaac agtgggcagg tgggaactgc aagatacatg gctccagaag 1620
tcctagaatc caggatgaat ttggagaatg ctgagtcctt caagcagacc gatgtctact 1680
ccatggctct ggtgctctgg gaaatgacat ctcgctgtaa tgcagtggga gaagtaaaag 1740
attatgagcc tccatttggg tccaagggtg gggagcacc ctgtgtcgaa agcatgaagg 1800
acaacgtgtt gagagatcga gggcgaccag aaattcccag cttctggctc aaccaccagg 1860
gcatccagat ggtgtgtgag acgttgactg agtgctggga ccacgacca gaggcccgctc 1920

tcacagccca	gtgtgtggca	gaacgcttca	gtgagctgga	gcatctggac	aggctctcgg	1980
ggaggagctg	ctcggaggag	aagattcctg	aagacggctc	cctaaacact	accaaatagc	2040
tcttatgggg	caggctgggc	atgtccaaag	aggctgcccc	tctcaccaaa		2090

<210> 57

<211> 4568

<212> DNA

<213> NM_012408.3| Homo sapiens protein kinase C binding protein 1 (PRKCBP1), transcript variant 2, mRNA

<400> 57	
gtgagaacta	ggagcctgtc ctccatgttt tataagtatt gacattacac agtggttaaca 60
atgcatccac	agagcttggc tgaagaggaa ataaaaacag aacaggaggt ggtagagggc 120
atggatatct	ctactcgctc caaagatcct ggctctgcag agagaacagc ccagaaaaga 180
aagttcccca	gccctccaca ttcttccaat ggccactcgc cgcaggacac atcaacaagc 240
cccattaaaa	agaaaaagaa acctggctta ctgaacagta acaataagga gcagtcagaa 300
ctaagacatg	gtccgtttta ctatatgaag cagccactca ccacagaccc tgttgatggt 360
gtaccgcagg	atggacggaa tgatttctac tgctgggttt gtcaccggga aggccaaagtc 420
ctttgctgtg	agctctgtcc ccgggtttat cagcctaagt gtctgagact gacatcggaa 480
ccagaggggg	actggttttg tcctgaatgt gagaaaatta cagtagcaga atgcatcgag 540
accagagta	aagccatgac aatgctcacc attgaacagt taccctacct gctcaagttt 600
gccattcaga	aaatgaaaca gccagggaca gatgcattcc agaagcccgt tccattggaa 660
cagcacccctg	actatgcgga atacatcttc catccaatgg acctttgtac attggaaaag 720
aatgcgaaaa	agaaaatgta tggctgcaca gaagccttcc tggctgatgc aaagtggatt 780
ttgcacaact	gcatcattta taatggggga aatcacaaat tgacgcaa at agcgaaagta 840
gtcatcaaaa	tctgtgaaca tgagatgaat gaaatcgaag tatgtccaga atgttatcta 900
gctgcttgcc	aaaaacgaga taactgggtt tgtgagcctt gtagcaatcc acatcctttg 960
gtctggggcca	aactgaaggg gtttccattc tggcctgcaa aagctctaag ggataaagac 1020
gggcagggtcg	atgcccgaat ctttggacaa catgacaggg cctgggttcc aataaataat 1080
tgctacctca	tgtctaaaga aattcctttt tctgtgaaaa agactaagag catcttcaac 1140
agtgccatgc	aagagatgga ggtttacgtg gagaacatcc gcaggaagtt tgggggtttt 1200
aattactctc	catttaggac accctacaca cccaacagcc agtatcaa at gctgctcgat 1260
cccaccaacc	ccagcgccgg cactgccaag atagacaagc aggagaaggt caagctcaac 1320
tttgacatga	cggcatcccc caagatcctg atgagcaagc ctgtgctgag tgggggcaca 1380
ggccgcccga	tttccttgtc ggatatgccg cgctcccca tgagcacaaa ctcttctgtg 1440

cacacgggct	ccgacgtgga	gcaggatgct	gagaagaagg	ccacgtcgag	ccacttcagt	1500
gcgagcgagg	agtccatgga	cttcctggat	aagagcacag	cttcaccagc	ctccaccaag	1560
acgggacaag	cagggagttt	atccggcagc	caaagccct	tctctcctca	actgtcagct	1620
cctatcacga	cgaaaacgga	caaaacctcc	accaccggca	gcacacctgaa	tcttaacctg	1680
gatcgaagca	aagctgagat	ggatttgaag	gagctgagcg	agtcgggtcca	gcaacagtcc	1740
accctgttc	ctctcatctc	tcccaagcgc	cagattcgta	gcagggttcca	gctgaatctt	1800
gacaagacca	tagagagttg	caaagcacia	ttaggcataa	atgaaatctc	ggaagatgtc	1860
tatacggccg	tagagcacag	cgattcggag	gattctgaga	agtcagatag	tagcgatagt	1920
gagtatatca	gtgatgatga	gcagaagtct	aagaacgagc	cagaagacac	agaggacaaa	1980
gaaggttgtc	agatggacaa	agagccatct	gctgttaaaa	aaaagcccaa	gcctacaaac	2040
ccagtggaga	ttaaagagga	gctgaaaagc	acgtcaccag	ccagcgagaa	ggcagaccct	2100
ggagcagtca	aggacaaggc	cagccctgag	cctgagaagg	acttttccga	aaaggcaaaa	2160
ccttcacctc	accccataaa	ggataaactg	aagggaaaag	atgagacgga	ttccccaaca	2220
gtccatttgg	gcctggactc	tgattcagag	agcgaacttg	tcatagattt	aggagaagac	2280
cattctgggc	gggagggtcg	aaaaaataag	aaggaacca	aagaaccatc	tcccaaacag	2340
gatgtttag	gtaaaactcc	accatccacg	acgggtgggc	gccattctcc	cccggaaaca	2400
ccggtgctca	cccgtcttcc	cgcccaaact	tccgcggctg	gcgccacagc	caccaccagc	2460
acgtcctcca	cggtcaccgt	cacggccccg	gcccccgccg	ccacaggaag	cccagtgaag	2520
aagcagaggc	cgcttttacc	gaaggagact	gccccggccg	tgcagcgggt	cgtgtggaac	2580
tcatcaactg	tccagcagaa	ggagatcaca	cagagcccat	ccacgtccac	catcaccttg	2640
gtgaccagca	cacagtcac	gcccctggtc	accagctcgg	gtccatgag	cacccttggtg	2700
tcctcagtca	acgctgacct	gcccctcgcc	actgcctcag	ctgatgtcgc	cgctgatatt	2760
gccaaagtaca	ctagcaaaat	gatggatgca	ataaaaggaa	caatgacaga	aatatacaac	2820
gatctttcta	aaaacactac	tggaagcaca	atagctgaga	ttcgcagggt	gaggatcgag	2880
atagagaagc	tccagtggct	gcaccagcaa	gagctctccg	aatgaaaca	caacttagag	2940
ctgaccatgg	cggagatgag	gcagagcctg	gagcaggagc	gggaccgggt	catcgccgag	3000
gtgaagaagc	agctggagtt	ggagaagcag	caggcggtgg	atgagaccaa	gaagaagcag	3060
tggtgcgcca	actgcaagaa	ggaggccatc	ttttactgct	gttggaacac	tagctactgt	3120
gactaccctc	gccagcaagc	ccactggcct	gagcacatga	agtcctgcac	ccagtcagct	3180
actgctcctc	agcaggaagc	ggatgctgag	gtgaacacag	aaactactaa	taagtcctcc	3240
caggggagct	cctcgagcac	acaatcagca	ccttcagaaa	cggccagcgc	ctccaaagag	3300
aaggagacgt	cagctgagaa	aagcaaggag	agtggctcga	cccttgacct	ttctggctcc	3360
agagagacgc	cctcctccat	tctcttaggc	tccaaccaag	gctctgacca	ttcccggagt	3420
aataaatcca	gttgagcag	cagtgatgag	aagaggggat	cgacacgttc	cgatcacaa	3480

```

accagtacca gcacgaagag cctcctcccg aaagagtctc ggctggacac cttctgggac 3540
tagcagtgaa tcgggacaca aaccaccac cccattggga gaaaaacca gacgccagga 3600
aaagaagaaa caacaaaggc aggagaacag ccactttcag acttgaaaat gacaaaaccc 3660
tcagttgagc ctgagccccc ggcgcggggg ctgctacact acaggacacc cagcatcggc 3720
tttgactgca gactgttcac ccacacgagc cctgtgcttt tgggtgtaa atgtacaat 3780
ttgtggatgt cattgaatct agaggacttt ccccttttta tttttgtatt aactttaact 3840
tattaaaaaa aaaaaaagaa aaagaaaaac gatttaaaaa aaaaaaaaaa agcaaccaac 3900
cccaacaaca aaaaagaatg ttttggtatt ggagaagggg tggtcagtta gcctgtctgt 3960
cacacgacgg aatggatact gggcccgggg accactttca tactcacgtc ctcaccttg 4020
gatacccagg ggagggcgaa ccgttttcgc tcgtgtgtct gtacgcagca tgttgggac 4080
gggagtttcg gcacagacta tcccatcaag ccgttggctc ctttcagcta ctacgttacc 4140
acgttcctaa aacgcaagct ctccggacca gacggacaca gggagaagct agtttctttc 4200
atgtgattga aatgatgact ctactcctaa aagggaaaaa acaatatcct tgtttacaga 4260
agagaaacaa acaagcccca ctacgtcag tcacaggaga gaacacagaa agtccttagga 4320
tcatgaactc tgaaaaaaag agaaacctta tctttgcttt gtggttcctt taaacacact 4380
cacacacact tggtcagaga tgctgtgctt cttggaagca aggactcaa ggcaagggtgc 4440
acgcagagga cgtttgagtc tgggatgaag catgtacgta ttatttatat gatggaat 4500
cacgttttta tgtaagcatg aaacacaggc agtatgagag aaagcaaggc ccgtcatgct 4560
gtccgtac 4568

```

<210> 58

<211> 2069

<212> DNA

<213> NM_003270.2| Homo sapiens transmembrane 4 superfamily member 6 (TM4SF6), mRNA

```

<400> 58
cgctcgtaag ttttcggcag tttccgggga gactcgggga ctccgcgtct cgctctctgt 60
gttccaatcg cccggtgcgg tgggtgcagg tctcgggcta gtcattggcg ccccgctctg 120
gagactgcag actaaaccag tcattacttg tttcaagagc gttctgctaa tctacacttt 180
tattttctgg atcactggcg ttatccttct tgcagttggc atttggggca aggtgagcct 240
ggagaattac ttttctcttt taaatgagaa ggccaccaat gtccccttcg tgctcattgc 300
tactggtacc gtcattattc ttttgggcac ctttggttgt tttgctacct gccgagcttc 360
tgcatggatg ctaaaactgt atgcaatgtt tctgactctc gtttttttgg tcgaactgg 420
cgctgccatc gtaggatttg ttttcagaca tgagattaag aacagcttta agaataatta 480

```

```

tgagaaggct ttgaagcagt ataactctac aggagattat agaagccatg cagtagacaa    540
gatccaaaat acgttgcatt gttgtggtgt caccgattat agagattgga cagatactaa    600
ttattactca gaaaaaggat ttcctaagag ttgctgtaaa cttgaagatt gtactccaca    660
gagagatgca gacaaagtaa acaatgaagg ttgttttata aaggatgatga ccattataga    720
gtcagaaatg ggagtcgttg caggaatttc ctttggagtt gcttgcttcc aactgattgg    780
aatctttctc gcctactgcc tctctcgtgc cataacaaat aaccagtatg agatagtgtgta    840
acccaatgta tctgtgggcc tattcctctc tacctttaag gacatttagg gtccccctg    900
tgaattagaa agttgcttgg ctggagaact gacaacacta cttactgata gaccaaaaaa    960
ctacaccagt aggttgattc aatcaagatg tatgtagacc taaaactaca ccaataggct   1020
gattcaatca agatccgtgc tcgcagtggg ctgattcaat caagatgtat gtttgctatg   1080
ttctaagtcc accttctatc ccattcatgt tagatcgttg aaaccctgta tccctctgaa   1140
acactggaag agctagtaaa ttgtaaataga agtaatactg tgttcctctt gactgttatt   1200
tttcttagta gggggccttt ggaaggcact gtgaatttgc tattttgatg tagtgttaca   1260
agatggaaaa ttgattcctc tgactttgct attgatgtag tgtgatagaa aattcacccc   1320
tctgaactgg ctccctccca gtcaagggtta tctggtttga ttgtataatt tgcaccaaga   1380
agttaaaatg ttttatgact ctctgttctg ctgacaggca gagagtcaca ttgtgtaatt   1440
taatttcagt cagtcaatag atggcatccc tcatcagggt tgccagatgg tgataacagt   1500
gtaaggcctt ggggtctaagg catccacgac tggaaggggac tactgatgtt ctgtgataca   1560
tcagggtttca gcacacaact tacatttctt tgccctccaaa ttgaggcatt tattatgatg   1620
ttcatacttt ccctcttggt tgaaagtttc taattattaa atggtgtcgg aattgttgta   1680
ttttccttag gaattcagtg gaacttatct tcattaaatt tagctggtac caggttgata   1740
tgacttgta atattatggt caactttaag tcttagtttt cgtttgtgcc ttgattaat   1800
aagtataact cttatacaat aaatactgct ttcctctaaa aagatcgtgt ttaaattaac   1860
ttgtagaaaa tctgctggaa tgggtgttgt tttccactga gaaagctaag ccctacattt   1920
ctattcagag tactgttttt agatgtgaaa tataagcctg cggccttaac tctgtattaa   1980
aaaaaatggt tttgttttaa aaaaactggt cccatagggt cagcaaacca ccatggcaca   2040
tgtataccta tgtaacaaac ctgcacatt                                     2069

```

<210> 59

<211> 2402

<212> DNA

<213> NM_021200.1| Homo sapiens plectstrin homology domain containing, family B (evectins) member 1 (PLEKHB1), mRNA

<400> 59
aagagaggaa ggcttaaaga gccagactgc gcagccagga ctgggggtatg ggcgctgtcc 60
tgcaggccaa agaatgaaga thtagccccg cccccaacct aggaggagga ccagcccgggt 120
tcctgtcctg ccccgcaac ctgccccga ttccactccg ggaacctcgg cgatgctgag 180
ccaagaccac ttctgaatca gggatgactt gtctagttaa cgtaggggtca gagccatcag 240
ttggaaaggc tgggaggagc ctggagaaaag aggcgacctt ccttgggatc tgtgcgctcc 300
ctccttgctt cccctccag cctccactt ggtagcacct tcctgatccc cttatctcta 360
aggcgctcag ggaaatgccc cgctgcggga gccttctggg aaatgctgcc ctggccaccc 420
aggaaccatg agccctgcag ccccggtccc gcctgactcc gctctggaaa gtccttttga 480
agaaatggcc ctggtgaggg gcggctggct gtggagacag agctccatcc tccgccgtg 540
gaagcggaac tggtttgccc tgtggctgga cgggaccctg ggatactacc acgatgagac 600
agcgcaggac gaggaggacc gtgtgctcat ccacttcaat gtccgtgaca taaagatcgg 660
cccagagtgc catgatgtgc agccccaga gggccggagc cgagatggcc tgctgactgt 720
gaacctacgg gaaggcggcc gcctgcacct ctgtgcggag accaaggatg atgccctagc 780
atggaagaca gcactgctgg aggcaaactc caccgccggc ccagctggag ccaccgtccc 840
tcccaggagc cgccgggttt gctccaaggt cagggtgtgtg acccgctcgt ggagcccctg 900
taaggttgag aggcggatct ggggtgcgct ctacagcccg taccaagact actacgaggt 960
ggtgcccccc aatgcacacg aggccacgta tgtccgcagc tactacggac cgccctacgc 1020
aggccctggc gtgacgcacg tgatagtgcg ggaggatccc tgctacagcg ccggcgcccc 1080
tctggccatg ggcatgcttg cgggagccgc cactggggcg gcgctgggct cgctcatgtg 1140
gtcgccctgc tggttctgag ccctgggact cggagcactg acccctgcgc ttggattgct 1200
agactcctct tcctcctgga cccatcctc taccatccaa gccctgtccc actttggccc 1260
tactctctcc attagctcct tccgggtttg gaccattccc cccactccct acccttaatc 1320
cccacatggg aagaagctat catcacagg acaaacatcg cttgaagtct tcacatctac 1380
cactagacac ccccaaaatc tgttatagac atttatggat acatttcctc taaacacaac 1440
agggcacagc aaatacgact tcatttggtt tcgagttccc caggcgctgt agacacaaca 1500
tgaatcgggc tctctgctct ctccttaggg agctcgagtc ctgggtgggga gaacaggagt 1560
aaacaaggac ttgacaaagc tgaagagtta tcagtccctt gacaaggaca ggtggggcag 1620
ggagcaagac aggtaggctg gaagaacagt tattggcaag tatgcagagc cgtgaacgtc 1680
atggcatgtc caaggaatta aatgggagtt catttgggct ggggtggagg ctgggatcag 1740
accgtggtgg gccttcaagc taaggagctt cctaggtgaa aggggagatg tgagccttct 1800
ctggagggaa gtttcatgat tgcattata atgaatatat tgcctgtttt gtgaatactg 1860
acacatgtcc atacctaaaa cactcctgag ttaagtccca tccttccac aaacagcttc 1920
ctggctggta cccatgataa caattgagct gaacctgggg acccctgggt ggggaacagg 1980


```

tgagttctat ttgagacttc cagccctaga aagctgcctc cgtccagaaa tgcctctcac 2040
accaggagct cggccctctc tttatagctg tgactgtcac cctctcaggc tttgtctcat 2100
ccttcattct gaataagatg gcagtgttct cctctggggc ctgatccacc tctacaccag 2160
cccaggaagc cccatctgtg cctgccctca ggtgggtccac cagtctcccc ctttggttcc 2220
cttccagtct cttccccctt tctatcccaa tcaccaatag aaatgctaac atccctgcct 2280
ggtagccaga ctagcccact aaagctcccc tgtaaattggg ggctccatta gttctgctgc 2340
cgagactaat aaagatttgg ttggttctag cagtaaaaaa aaaaaaaaaa aaaaaaaaaa 2400
aa 2402

```

<210> 60

<211> 2856

<212> DNA

<213> NM_003661.2| Homo sapiens apolipoprotein L, 1 (APOL1), transcript variant 1, mRNA

```

<400> 60
actttccctt tcgaattcct cggtatatct tggggactgg aggacctgtc tggttattat 60
acagacgcat aactggaggt gggatccaca cagctcagaa cagctggatc ttgctcagtc 120
tctgccaggg gaagattcct tggaggaggc cctgcagcga catggaggga gctgctttgc 180
tgagagtctc tgtcctctgc atctggatga gtgcactttt ccttgggtgtg ggagtgaggg 240
cagaggaagc tggagcgagg gtgcaacaaa acgttccaag tgggacagat actggagatc 300
ctcaaagtaa gcccctcggg gactgggctg ctggcaccat ggacccagag agcagtatct 360
ttattgagga tgccattaag tatttcaagg aaaaagtgag cacacagaat ctgctactcc 420
tgctgactga taatgaggcc tggaacggat tcgtggctgc tgctgaactg cccaggaatg 480
aggcagatga gctccgtaaa gctctggaca accttgcaag acaaatgatc atgaaagaca 540
aaaactggca cgataaaggc cagcagtaga gaaactgggt tctgaaagag tttcctcggg 600
tgaaaagtga gcttgaggat aacataagaa ggctccgtgc ccttgcagat ggggttcaga 660
agggccacaa aggaccacc atcgccaatg tggtgtctgg ctctctcagc atttcctctg 720
gcatcctgac cctcgtcggc atgggtctgg cacccttcac agaggaggc agccttgtag 780
tcttggaacc tgggatggag ttgggaatca cagccgcttt gaccgggatt accagcagta 840
ccatggacta cggaaagaag tgggtggacac aagcccaagc ccacgacctg gtcataaaaa 900
gccttgacaa attgaaggag gtgagggagt ttttgggtga gaacatatcc aactttcttt 960
ccttagctgg caatacttac caactcacac gaggcattgg gaaggacatc cgtgccctca 1020
gacgagccag agccaatctt cagtcagtac cgcatgcctc agcctcacgc ccccggttca 1080
ctgagccaat ctgagctgaa agcgggtgaac aggtggagag ggttaatgaa cccagcatcc 1140

```

```

tggaaatgag cagaggagtc aagctcacgg atgtggcccc tgtaagcttc tttcttgtgc 1200
tggatgtagt ctacctcgtg tacgaatcaa agcacttaca tgagggggca aagtcagaga 1260
cagctgagga gctgaagaag gtggctcagg agctggagga gaagctaaac attctcaaca 1320
ataattataa gattctgcag gcggaaccaag aactgtgacc acagggcagg gcagccacca 1380
ggagagatat gcctggcagg ggccaggaca aaatgcaaac tttttttttt ttctgagaca 1440
gagtcttgct ctgtcgccaa gttggagtgc aatggtgcga tctcagctca ctgcaagctc 1500
tgcctcccggt gttcaagcga ttctcctgcc ttggcctccc aagtagctgg gactacaggc 1560
gcctaccacc atgcccagct aattttttgta tttttaatag agatgggggtt tcaccatggt 1620
ggccaggatg gtctcgatct cctgacctct tgatctgccc accttggcct cccaaagtgc 1680
tgggattaca ggcgtgagcc atcgcttttg acccaaatgc aaacatttta ttagggggat 1740
aaagaggggtg aggtaaagtt tatggaactg agtggttaggg actttggcat ttccatagct 1800
gagcacagca ggggaggggt taatgcagat ggcagtgcag caaggagaag gcaggaacat 1860
tggagcctgc aataagggaa aaatgggaac tggagagtgt ggggaatggg aagaagcagt 1920
ttactttaga ctaaagaata tattgggggg cggggtgtag tggctcatgc ctgtaatccg 1980
agcactttgg gaggccaagg cgggcggatc acgaggtcag gagatcgaga ccatcctggc 2040
taacacagtg aaaccccgtc tctactaaaa atacaaaaaa ttagccgggc atggtggcgg 2100
gcgcctgtag ttccagctaa ctgggcggct gaggcaggag aatggcgtag acctgggagg 2160
tggagcttgc agtgagccga gatatcgcca ctgcactcca gcctgggtga cagagcgaga 2220
ctccatctca aaaaaaaaaa aaaaaagaat atattgacgg aagaatagag aggaggcttg 2280
aaggaaccag caatgagaag gccaggaaaa gaaagagctg aaaatggaga aagccaaga 2340
gttagaacag ttggatacag gagaagaaac agcggctcca ctacagaccc agccccaggt 2400
tcaatgtcct ccgaagaatg aagtctttcc ctggtgatgg tcccctgccc tgtctttcca 2460
gcatccactc tcccttgtcc tcctgggggc atatctcagt caggcagcgg cttcctgatg 2520
atggtcattg gggtggttgt catgtgatgg gtcccctcca ggttactaaa ggggtgcatgt 2580
cccctgcttg aacactgaag ggcaggtggt gggccatggc catggtcccc agctgaggag 2640
cagggtgtccc tgagaacca aacttcccag agagtatgtg agaaccaacc aatgaaaaca 2700
gtcccatcgc tcttaccggg taagtaaaca gtcagaaaat tagcatgaaa gcagtttagc 2760
attgggagga agctcagatc tctagagctg tcttgtcgcc gcccaggatt gacctgtgtg 2820
taagtcccaa taaactcacc tactcatcaa gctgga 2856

```

<210> 61

<211> 1655

<212> DNA

<213> NM_002164.3| Homo sapiens indoleamine-pyrrole 2,3 dioxygenase (INDO), mRNA

```

<400> 61
aatttctcac tgcccctgtg ataaactgtg gtcactggct gtggcagcaa ctattataag      60
atgctctgaa aactcttcag acactgaggg gcaccagagg agcagactac aagaatggca      120
cacgctatgg aaaactcctg gacaatcagt aaagagtacc atattgatga agaagtgggc      180
tttgctctgc caaatccaca ggaaaatcta cctgattttt ataatgactg gatgttcatt      240
gctaaacatc tgctgatct catagagtct ggccagcttc gagaaagagt tgagaagtta      300
aacatgctca gcattgatca tctcacagac cacaagtcac agcgccttgc acgtctagtt      360
ctgggatgca tcaccatggc atatgtgtgg ggcaaaggct atggagatgt ccgtaaggct      420
ttgccaaaga atattgctgt tccttactgc caactctcca agaaactgga actgcctcct      480
attttggttt atgcagactg tgtcttggca aactggaaga aaaaggatcc taataagccc      540
ctgacttatg agaacatgga cgttttgttc tcatttcgtg atggagactg cagtaaagga      600
ttcttcctgg tctctctatt ggtggaaata gcagctgctt ctgcaatcaa agtaattcct      660
actgtattca aggcaatgca aatgcaagaa cgggacactt tgctaaaggc gctgttggaa      720
atagcttctt gcttgagaaa agcccttcaa gtgtttcacc aaatccacga tcatgtgaac      780
ccaaaagcat ttttcagtgt tcttcgcata tatttgctct gctggaaagg caacccccag      840
ctatcagacg gtctgggtgta tgaaggggtc tgggaagacc caaaggagtt tgcagggggc      900
agtgcaggcc aaagcagcgt ctttcagtgc tttgacgtcc tgctgggcat ccagcagact      960
gctggtggag gacatgctgc tcagttcctc caggacatga gaagatatat gccaccagct     1020
cacaggaact tcctgtgctc attagagtca aatccctcag tccgtgagtt tgtcctttca     1080
aaaggatgat ctggcctgct ggaagcttat gacgcctgtg tgaaagctct ggtctccctg     1140
aggagctacc atctgcaaat cgtgactaag tacatcctga ttcctgcaag ccagcagcca     1200
aaggagaata agacctctga agacccttca aaactggaag ccaaaggaaac tggaggcact     1260
gatttaatat atttcctgaa gactgtaaga agtacaactg agaaatccct tttgaaggaa     1320
ggttaatatg acccaacaag agcacatfff atcatagcag agacatctgt atgcattcct     1380
gtcattaccc attgtaacag agccacaaac taatactatg caatgtttta ccaataatgc     1440
aatacaaaaag acctcaaaat acctgtgcat ttctttagtg aaaacaacaa aaggtaatta     1500
tgtgtaatta tactagaagt tttgtaatct gtatcttatc attggaataa aatgacattc     1560
aataaataaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa     1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa                                     1655

```

<210> 62

<211> 2242

<212> DNA

<213> NM_021784.3| Homo sapiens forkhead box A2 (FOXA2), transcript variant 1, mRNA

```

<400> 62
cccgcctcact tccaactacc gcctccggcc tgcccagggg gagagagggg gtggagccca    60
gggagagggg gcgcgagaga gggagggagg aggggacggg gctttggctg actttttttt    120
aaaagagggg ggggggtggg ggtgattgct ggtcgtttgt tgtggctgtt aaatttttaa    180
ctgccatgca ctcggcttcc agtatgctgg gagcggtgaa gatggaaggg cacgagccgt    240
ccgactggag cagctactat gcagagcccg agggctactc ctccgtgagc aacatgaacg    300
ccggcctggg gatgaacggc atgaacacgt acatgagcat gtcggcggcc gccatgggca    360
gcggctcggg caacatgagc gcgggctcca tgaacatgtc gtcgtacgtg ggcgctggca    420
tgagcccgtc cctggcgggg atgtcccccg gcgcggggcg catggcgggc atgggcggct    480
cggccggggc ggccggcggt gcgggcatgg ggccgcactt gagtcccagc ctgagcccgc    540
tcgggggggca ggcgccgggg gccatgggcg gcctggcccc ctacgccaac atgaactcca    600
tgagccccat gtacgggcag gcgggcctga gccgcgcccc cgaccccaag acctacaggc    660
gcagctacac gcacgcaaag ccgccctact cgtacatctc gtcctacacc atggccatcc    720
agcagagccc caacaagatg ctgacgctga gcgagatcta ccagtggatc atggacctct    780
tcccccttcta ccggcagaac cagcagcgct ggccagaactc catccgccac tcgctctcct    840
tcaacgactg tttcctgaag gtgccccgct cggccgacaa gcccggaag ggctccttct    900
ggaccctgca ccctgactcg ggcaacatgt tcgagaacgg ctgctacctg cgccgccaga    960
agcgcttcaa gtgcgagaag cagctggcgc tgaaggaggc cgcaggcgcc gccggcagcg   1020
gcaagaaggc ggccgccgga gcccaggcct cacaggctca actcggggag gccgccgggg   1080
cggcctccga gactccggcg ggcaccgagt cgcctcactc gagcgccctc ccgtgccagg   1140
agcacaagcg agggggcctg ggagagctga aggggacgcc ggctgcggcg ctgagccccc   1200
cagagccggc gccctctccc gggcagcagc agcaggccgc ggcccacctg ctgggcccgc   1260
cccaccaccg gggcctgccg cctgaggccc acctgaagcc ggaacaccac tacgccttca   1320
accaccggtt ctccatcaac aacctcatgt cctcggagca gcagcaccac cacagccacc   1380
accaccacca accccacaaa atggacctca aggcctacga acaggtgatg cactaccccg   1440
gctacgggtc ccccatgcct ggcagcttgg ccatggggcc ggtcacgaac aaaacggggc   1500
tgagagcctc gcccctggcc gcagatacct cctactacca ggggggtgtac tcccggccca   1560
ttatgaactc ctcttaagaa gacgacggct tcaggcccgg ctaactctgg cccccggat   1620
cgaggacaag tgagagagca agtgggggtc gagacttttg ggagacgggt ttgcagagac   1680
gcaagggaga agaaatccat aacaccccca ccccaacacc cccaagacag cagtcttctt   1740
caccgcgtgc agccgttccg tcccaaacag agggccacac agatacccca cgttctatat   1800

```

```

aaggaggaaa acgggaaaga atataaagtt aaaaaaaagc ctccggtttc cactactgtg 1860
tagactcctg cttcttcaag cacctgcaga ttctgatttt tttgttggtg ttgttctcct 1920
ccattgctgt tgttgcaggg aagtcttact taaaaaaaaa aaaaaatttt gtgagtgact 1980
cgggtgtaaaa ccatgtagtt ttaacagaac cagaggggtg tactattggt taaaaacagg 2040
aaaaaaaaata atgtaagggg ctgttgtaaa tgaccaagaa aaagaaaaaa aaagcattcc 2100
caatcttgac acggtgaaat ccaggtctcg ggtccgatta atttatgggt tctgcgtgct 2160
ttatttatgg cttataaatg tgtattctgg ctgcaagggc cagagttcca caaatctata 2220
ttaaagtgtt atacccgggt tt 2242

```

<210> 63

<211> 1047

<212> DNA

<213> NM_033423.2| Homo sapiens granzyme H (cathepsin G-like 2, protein h-CCPX) (GZMH), mRNA

```

<400> 63
ggagtcaaca ccaacagctc tgacctgggc agccttcctg agaaaatgca gccattcctc 60
ctcctgttgg cttttcttct gacccttggg gctgggacag aggagatcat cgggggcat 120
gaggccaagc cccactcccg ccctacatg gcctttgttc agtttctgca agagaagagt 180
cggaagaggt gtggcggcat cctagtgaga aaggactttg tgctgacagc tgctcactgc 240
caggaagct ccataaatgt caccttgggg gccacaata tcaaggaaca ggagcggacc 300
cagcagttta tccctgtgaa aagaccatc ccccatccag cctataatcc taagaacttc 360
tccaacgaca tcatgctact gcagctggag agaaaggcca agtggaccac agctgtgcgg 420
cctctcaggc tacctagcag caaggccag gtgaagccag ggcagctgtg cagtgtggct 480
ggctgggggt atgtctcaat gagcacttta gcaaccacac tgcaggaagt gttgctgaca 540
gtgcagaagg actgccagt tgaacgtctc ttccatggca attacagcag agccactgag 600
atgtgtgtgg gggatccaaa gaagacacag accggtttca agggggactc cggggggccc 660
ctcgtgtgta aggacgtagc ccaaggtatt ctctcctatg gaaacaaaaa agggacacct 720
ccaggagtct acatcaaggt ctcacacttc ctgccctgga taaagagaac aatgaagcgc 780
ctctaacagc aggcattgaga ctaaccttc tctgggcctg accatctctg ggacagaggc 840
aagaatcccc aaggggtggg cagtcagggt tgcaggactg taataaatgg atctctgggtg 900
tagaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaa 1047

```

<210> 64

<211> 5243

<212> DNA

<213> NM_001165.3| Homo sapiens baculoviral IAP repeat-containing 3 (BIRC3), transcript variant 1, mRNA

```

<400> 64
agcgtgagac tcgcgccctc cggcacggaa aaggccaggc gacaggtgtc gcttgaaaag      60
actgggcttg tccttgctgg tgcattgcgtc gtcggcctct gggcagcagg ttacaaaagg      120
agggaaacga cttcttctag attttttttt cagtttcttc tataaatcaa aacatctcaa      180
aatggagacc taaaatcctt aaagggactt agtctaattc cgggaggtag ttttgtgcat      240
gggtaaacaa attaatgtatt aactgggtgtt ttactatcca aagaatgcta attttataaa      300
catgatcgag ttatataagg tataccataa tgagtttgat tttgaatttg atttgtggaa      360
ataaaggaaa agtgattcta gctggggcat attgttaaag catttttttc agagttggcc      420
aggcagtctc ctactggcac attctcccat tatgtagaat agaaatagta cctgtgtttg      480
ggaaagattt taaaatgagt gacagttatt tggaacaaag agctaataat caatccactg      540
caaattaaag aaacatgcag atgaaagtgt tgacacatta aaatacttct acagtgacaa      600
agaaaaatca agaacaaagc tttttgatat gtgcaacaaa ttttagaggaa gtaaaaagat      660
aaatgtgatg attgggtcaag aaattatcca gttattttaca aggccactga tatttttaac      720
gtccaaaagt ttgttttaaat gggctgttac cgctgagaat gatgaggatg agaatgatgg      780
ttgaagggtta catttttagga aatgaagaaa cttagaaaat taatataaag acagtgatga      840
atacaaagaa gattttttata acaatgtgta aaatttttgg ccagggaag gaatattgaa      900
gttagatata attacttacc tttgagggaa ataattgttg gtaatgagat gtgatgtttc      960
tcctgccacc tggaaacaaa gcattgaagt ctgcagttga aaagcccaac gtctgtgaga     1020
tccaggaaac catgcttgca aaccactggg aaaaaaaaaa aaaaaaaaaa aaaaaagcca     1080
cagtgacttg cttattgggtc attgctagta ttatcgactc agaacctctt tactaatggc     1140
tagtaaatca taattgagaa attctgaatt ttgacaaggt ctctgctggt gaaatggtaa     1200
atttattatt ttttttgtca tgataaattc tggttcaagg tatgctatcc atgaaataat     1260
ttctgaccaa aactaaattg atgcaatttg attatccatc ttagcctaca gatggcatct     1320
ggtaactttt gactgtttta aaaaataaat ccactatcag agtagatttg atgttggcctt     1380
cagaaacatt tagaaaaaca aaagttcaaa aatgttttca ggaggtgata agttgaataa     1440
ctctacaatg ttagttcttt gagggggaca aaaaatttaa aatctttgaa aggtcttatt     1500
ttacagccat atctaaatta tcttaagaaa atttttaaca aagggaatga aatatatctc     1560
atgattctgt ttttccaaaa gtaacctgaa tatagcaatg aagttcagtt ttgttattgg     1620
tagtttgggc agagtctctt tttgcagcac ctgttgtcta ccataattac agaggacatt     1680

```

tccatgttct	agccaagtat	actattagaa	taaaaaaact	taacattgag	ttgcttcaac	1740
agcatgaaac	tgagtccaaa	agaccaaag	aacaaacaca	ttaatctctg	attattttatt	1800
ttaaatagaa	tattttaattg	tgtaagatct	aatagtatca	ttatacttaa	gcaatcatat	1860
tcctgatgat	ctatgggaaa	taactattat	ttaattaata	ttgaaaccag	gttttaagat	1920
gtgttagcca	gtcctgttac	tagtaaactct	ctttatttgg	agagaaattt	tagattgttt	1980
tgttctcctt	attagaagga	ttgtagaaag	aaaaaaatga	ctaattggag	aaaaattggg	2040
gatatatcat	atttcactga	attcaaaatg	tcttcagttg	taaatcttac	cattattttta	2100
cgtacctcta	agaaataaaa	gtgcttctaa	ttaaaatatg	atgtcattaa	ttatgaaata	2160
cttcttgata	acagaagttt	taaaatagcc	atcttagaat	cagtgaata	tggtaatgta	2220
ttattttcct	cctttgagtt	aggtcttggt	cttttttttc	ctggccacta	aatttcacaa	2280
tttccaaaaa	gcaaaataaa	catattctga	atatttttgc	tgtgaaacac	ttgacagcag	2340
agctttccac	catgaaaaga	agcttcatga	gtcacacatt	acatctttgg	gttgattgaa	2400
tgccactgaa	acattctagt	agcctggaga	agttgacct	cctgtggaga	tgccctgcat	2460
taaatggcat	cctgatggct	taatacacat	cactcttctg	tgaagggttt	taattttcaa	2520
cacagcttac	tctgtagcat	catgtttaca	ttgtatgtat	aaagattata	caaagggtgca	2580
attgtgtatt	tcttccttaa	aatgtatcag	tataggattt	agaatctcca	tgttgaaact	2640
ctaaatgcat	agaaataaaa	ataataaaaa	atttttcatt	ttggcttttc	agcctagtat	2700
taaaactgat	aaaagcaaag	ccatgcacaa	aactacctcc	ctagagaaag	gctagtcctt	2760
tttcttcccc	attcatttca	ttatgaacat	agtagaaaac	agcatattct	tatcaaattt	2820
gatgaaaagc	gccaacacgt	ttgaactgaa	atacgacttg	tcatgtgaac	tgtaccgaat	2880
gtctacgtat	tccacttttc	ctgctggggg	tcctgtctca	gaaaggagtc	ttgctcgtgc	2940
tggtttctat	tacactgggtg	tgaatgacaa	gggtcaaagc	ttctgttggtg	gcctgatgct	3000
ggataactgg	aaaagaggag	acagtcctac	tgaaaagcat	aaaaagtgtg	atcctagctg	3060
cagattcggt	cagagtctaa	attccgttaa	caacttggaa	gctacctctc	agcctacttt	3120
tccttcttca	gtaacaaatt	ccacacactc	attacttccg	ggtacagaaa	acagtggata	3180
tttccgtggc	tcttattcaa	actctccatc	aaatcctgta	aactccagag	caaatcaaga	3240
tttttctgcc	ttgatgagaa	gttcctacca	ctgtgcaatg	aataacgaaa	atgccagatt	3300
acttactttt	cagacatggc	cattgacttt	tctgtcgcca	acagatctgg	caaaagcagg	3360
cttttactac	ataggacctg	gagacagagt	ggcttgcttt	gcctgtgggtg	gaaaattgag	3420
caattgggaa	ccgaaggata	atgctatgtc	agaacacctg	agacattttc	ccaaatgccc	3480
atttatagaa	aatcagcttc	aagacacttc	aagatacaca	gtttctaata	tgagcatgca	3540
gacacatgca	gcccgcctta	aaacattctt	taactggccc	tctagtgttc	tagttaatcc	3600
tgagcagctt	gcaagtgcgg	gtttttatta	tgtgggtaac	agtgatgatg	tcaaatgctt	3660

```

ttgctgtgat ggtggactca ggtgttggga atctggagat gatccatggg ttcaacatgc 3720
caagtgggttt ccaaggtgtg agtacttgat aagaattaaa ggacaggagt tcatccgtca 3780
agttcaagcc agttaccctc atctacttga acagctgcta tccacatcag acagcccagg 3840
agatgaaaat gcagagtcac caattatcca ttttgaacct ggagaagacc attcagaaga 3900
tgcaatcatg atgaatactc ctgtgattaa tgctgccgtg gaaatgggct ttagtagaag 3960
cctggtaaaa cagacagtcc agagaaaaat cctagcaact ggagagaatt atagactagt 4020
caatgatctt gtgttagact tactcaatgc agaagatgaa ataaggggaag aggagagaga 4080
aagagcaact gaggaaaaag aatcaaataa tttattatta atccggaaga atagaatggc 4140
actttttcaa catttgactt gtgtaattcc aatcctggat agtctactaa ctgccggaat 4200
tattaatgaa caagaacatg atgttattaa acagaagaca cagacgtctt tacaagcaag 4260
agaactgatt gatacgattt tagtaaaagg aaatattgca gccactgtat tcagaaactc 4320
tctgcaagaa gctgaagctg tgttatatga gcattttatt gtgcaacagg acataaaata 4380
tattcccaca gaagatgttt cagatctacc agtggaagaa caattgcgga gactacaaga 4440
agaaagaaca tgtaaagtgt gtatggacaa agaagtgtcc atagtgttta ttccttgtgg 4500
tcatctagta gtatgcaaag attgtgctcc ttctttaaga aagtgtccta tttgtaggag 4560
tacaatcaag ggtacagtcc gtacatttct ttcatgaaga agaaccaaaa catcgtctaa 4620
actttagaat taattttatta aatgtattat aactttaact tttatcctaa tttggtttcc 4680
ttaaaatfff tattttattta caactcaaaa aacattgttt tgtgtaacat atttatatat 4740
gtatctaaac catatgaaca tatatfffft agaaactaag agaatgatag gcttttgttc 4800
ttatgaacga aaaagaggta gcactacaaa cacaatatc aatcaaaatt tcagcattat 4860
tgaaattgta agtgaagtaa aacttaagat atttgagtta acctttaaga attttaaata 4920
ttttggcatt gtactaatac cggaacatg aagccagggtg tgggtggtagt tgcctgtagt 4980
cccaggctga ggcaagagaa ttacttgagc ccaggagttt gaatccatcc tgggcagcat 5040
actgagaccc tgccttttaa aacaaacaga acaaaaacaa aacaccaggg acacatttct 5100
ctgtcttttt tgatcagtgt cctatacatc gaagggtgtgc atatatgttg aatgacattt 5160
tagggacatg gtgttttttat aaagaattct gtgagaaaaa atttaataaa gcaacaaaaa 5220
ttactcttaa aaaaaaaaaa aaa 5243

```

<210> 65

<211> 3850

<212> DNA

<213> NM_005682.4| Homo sapiens G protein-coupled receptor 56 (GPR56), transcript variant 1, mRNA

<400> 65

agactgggtg	cctgtggccc	tgggaggagg	tggaagggga	ggagcaggcc	acacaggcac	60
aggccggtga	gggacctgcc	cagacctgga	gggtctcgct	ctgtcacaca	ggctggagtg	120
cagtgggtgtg	atcttggctc	atcgtaacct	ccacctcccg	ggttcaagtg	attctcatgc	180
ctcagcctcc	cgagttagctg	ggattacagg	tgggtgacttc	caagagtgac	tccgtcggag	240
gaaaatgact	ccccagtcgc	tgctgcagac	gacactgttc	ctgctgagtc	tgctcttcct	300
ggccaaggt	gcccacggca	ggggccacag	ggaagacttt	cgcttctgca	gccagcggaa	360
ccagacacac	aggagcagcc	tccactacaa	acccacacca	gacctgcgca	tctccatcga	420
gaactccgaa	gaggccctca	cagtccatgc	ccctttccct	gcagcccacc	ctgcttcccg	480
atccttccct	gacccaggg	gcctctacca	cttctgcctc	tactggaacc	gacatgctgg	540
gagattacat	cttctctatg	gcaagcgtga	cttcttgctg	agtgacaaag	cctctagcct	600
cctctgcttc	cagcaccagg	aggagagcct	ggctcagggc	ccccgctgt	tagccacttc	660
tgtcacctcc	tgggtggagcc	ctcagaacat	cagcctgccc	agtgccgcca	gcttcacctt	720
ctccttccac	agtcctcccc	acacggccgc	tcacaatgcc	tcggtggaca	tgtgcgagct	780
caaaagggac	ctccagctgc	tcagccagtt	cctgaagcat	ccccagaagg	cctcaaggag	840
gccctcggct	gcccccgcca	gccagcagtt	gcagagcctg	gagtcgaaac	tgacctctgt	900
gagattcatg	ggggacatgg	tgtccttcga	ggaggaccgg	atcaacgcca	cgggtgtggaa	960
gctccagccc	acagccggcc	tccaggacct	gcacatccac	tcccggcagg	aggaggagca	1020
gagcgagatc	atggagtact	cgggtgctgct	gcctcgaaca	ctcttccaga	ggacgaaagg	1080
ccggagcggg	gaggctgaga	agagactcct	cctggtggac	ttcagcagcc	aagccctgtt	1140
ccaggacaag	aattccagcc	aagtcctggg	tgagaagggtc	ttggggattg	tggtagagaa	1200
caccaaagta	gccaacctca	cggagcccgt	ggtgctcact	ttccagcacc	agctacagcc	1260
gaagaatgtg	actctgcaat	gtgtgttctg	ggttgaagac	cccacattga	gcagcccggg	1320
gcattggagc	agtgcctgggt	gtgagaccgt	caggagagaa	acccaaacat	cctgcttctg	1380
caaccacttg	acctactttg	cagtgcctgat	ggtctcctcg	gtggagggtg	acgccgtgca	1440
caagcactac	ctgagcctcc	tctcctacgt	gggctgtgtc	gtctctgccc	tggcctgcct	1500
tgtcaccatt	gccgcctacc	tctgctccag	ggtgcccctg	ccgtgcagga	ggaaacctcg	1560
ggactacacc	atcaagggtgc	acatgaacct	gctgctggcc	gtcttcctgc	tggacacgag	1620
cttcctgctc	agcgagccgg	tggccctgac	aggctctgag	gctggctgcc	gagccagtg	1680
catcttcctg	cacttctccc	tgctcacctg	cctttcctgg	atgggcctcg	aggggtacaa	1740
cctctaccga	ctcgtgggtg	aggtctttgg	cacctatgtc	cctggctacc	tactcaagct	1800
gagcgccatg	ggctggggct	tccccatctt	tctggtgacg	ctggtggccc	tgggtggatgt	1860
ggacaactat	ggcccacatca	tcttggtgtg	gcataggact	ccagagggcg	tcatctaccc	1920
ttccatgtgc	tggatccggg	actccctgg	cagctacatc	accaacctgg	gcctcttcag	1980
cctggtgttt	ctgttcaaca	tggccatgct	agccaccatg	gtggtgcaga	tcctgcggct	2040

```

gcgccccac acccaaaagt ggtcacatgt gctgacactg ctgggcctca gcctggctct 2100
tggcctgccc tgggccttga tcttcttctc ctttgcttct ggcaccttcc agcttgctgt 2160
cctctacctt ttcagcatca tcacctcctt ccaaggcttc ctcatcttca tctgggtactg 2220
gtccatgcgg ctgcaggccc ggggtggccc ctcccctctg aagagcaact cagacagcgc 2280
caggctcccc atcagctcgg gcagcacctc gtccagccgc atctaggcct ccagcccacc 2340
tgcccatgtg atgaagcaga gattcggcct cgtcgcacac tgcctgtggc ccccgagccc 2400
ggcccagccc caggccagtc agccgcagac tttggaaagc ccaacgacca tggagagatg 2460
ggccgttgcc atggtggacg gactcccggg ctgggctttt gaattggcct tggggactac 2520
tcggctctca ctcagctccc acgggactca gaagtgcgcc gccatgctgc ctaggggtact 2580
gtccccacat ctgtcccaac ccagctggag gcctggtctc tccttacaac ccctgggccc 2640
agccctcatt gctggggggc aggccttggg tcttgagggt ctggcacatc cttaatcctg 2700
tgcccctgcc tgggacagaa atgtggctcc agttgctctg tctctcgtgg tcaccctgag 2760
ggcactctgc atcctctgtc attttaacct cagggtggcac ccagggcgaa tggggccag 2820
ggcagacctt cagggccaga gccctggcgg aggagaggcc ctttgccagg agcacagcag 2880
cagctcgctt acctctgagc ccaggccccc tcctccctc agccccccag tcctccctcc 2940
atcttccctg gggttctcct cctctcccag ggctccttg ctcttctgtt cacagctggg 3000
gggtcccgat tccaatgctg ttttttgggg agtggtttcc aggagctgcc tgggtgtctgc 3060
tgtaaagtgt tgtctactgc acaagcctcg gcctgccctt gagccaggct cggtaccgat 3120
gcgtgggctg ggctaggtcc ctctgtccat ctgggccttt gtatgagctg cattgccctt 3180
gctcaccctg accaagcaca cgcctcagag gggccctcag cctctcctga agccctcttg 3240
tggcaagaac tgtggaccat gccagtcccg tctggtttcc atcccaccac tccaaggact 3300
gagactgacc tcctctgggtg aactggcctt agggcctgac actctcctaa gaggttctct 3360
ccaagcccc aaatagctcc aggcgccctc ggccgcccat catggttaat tctgtccaac 3420
aaacacacac gggtagattg ctggcctggt gtaggtggta gggacacaga tgaccgacct 3480
ggtcactcct cctgccaaca ttcagtctgg tatgtgaggc gtgcgtgaag caagaactcc 3540
tggagctaca gggacaggga gccatcattc ctgcctggga atcctggaag acttcctgca 3600
ggagtcagcg ttcaatcttg acctgaaga tgggaaggat gttcttttta cgtaccaatt 3660
cttttgtctt ttgatattaa aaagaagtac atgttcattg tagagaattt ggaaactgta 3720
gaagagaatc aagaagaaaa ataaaaatca gctgttgtaa tcacctagca aactggaaaa 3780
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3840
aaaaaaaaa 3850

```

<210> 66

<211> 372

<212> DNA

<213> NM_005953.2| Homo sapiens metallothionein 2A (MT2A), mRNA

```

<400> 66
agtcccagcg aacccgcgtg caacctgtcc cgactctagc cgcctcttca gcacgccatg      60
gatcccaact gtcctgcgc cgccggtgac tcctgcacct gcgccggttc ctgcaaatgc      120
aaagagtgca aatgcacttc gtgcaagaaa agctgctgct cctgctgccc tgtgggctgt      180
gccaagtgtg cccaaggctg catctgcaaa ggggcgtcgg acaagtgcag ctgctgcgcc      240
tgatgctggg acagccccgc tcccagatgt aaagaacgcg acttccacaa acctggattt      300
tttatgtaca accctgaccg tgaccgtttg ctatattcct ttttctatga aataatgtga      360
atgataataa aa                                     372

```

<210> 67

<211> 4180

<212> DNA

<213> NM_015002.1| Homo sapiens F-box protein 21 (FBX021), transcript variant 2, mRNA

```

<400> 67
gtacgcggac aagatggcgg cggcagcagt cgacagcgcg atggaggtgg tgccggcgct      60
ggcggaggag gccgcgccgg aggtagcggg cctcagctgc ctcgtcaacc tgccgggtga      120
ggtgctggag tacatcctgt gctgcggctc gctgacggcc gccgacatcg gccgtgtctc      180
cagcacctgc cggcggctgc gcgagctgtg ccagagcagc ggaaggtgt ggaaggagca      240
gttccgggtg aggtggcctt cccttatgaa acactacagc cccaccgact acgtcaattg      300
gttgggaagag tataaagttc ggcaaaaagc tgggttagaa gcgcggaaga ttgtagcctc      360
gttctcaaag aggttctttt cagagcacgt tccttgtaat ggcttcagtg acattgagaa      420
ccttgaagga ccagagattt tttttgaggga tgaactggtg tgtatcctaa atatggaagg      480
aagaaaagct ttgacctgga aatactaCgc aaaaaaaatt ctttactacc tgccggcaaca      540
gaagatctta aataatctta aggcctttct tcagcagcca gatgactatg agtcgtatct      600
tgaaggtgct gtatatattg accagtaCtg caatcctctc tccgacatca gcctcaaaga      660
catccaggcc caaattgaca gcatcgtgga gcttgtttgc aaaacccttc ggggcataaa      720
cagtcgccac cccagcttgg ccttcaaggc aggtgaatca tccatgataa tggaaataga      780
actccagagc caggtgctgg atgccatgaa ctatgtcctt tacgaccaac tgaagttcaa      840
ggggaatcga atggattact ataatgcCct caacttatat atgcatcagg ttttgattcg      900
cagaacagga atcccaatca gcatgtctct gctctatttg acaattgctc ggcagttggg      960

```

agtcccactg	gagcctgtca	acttcccaag	tcacttctta	ttaaggtggt	gccaaggcgc	1020
agaaggggcg	accctggaca	tctttgacta	catctacata	gatgcttttg	ggaaaggcaa	1080
gcagctgaca	gtgaaagaat	gcgagtactt	gatcggccag	cacgtgactg	cagcactgta	1140
tgggggtggc	aatgtcaaga	aggtgttaca	gagaatggtg	ggaaacctgt	taagcctggg	1200
gaagcgggaa	ggcatcgacc	agtcatacca	gctcctgaga	gactcgctgg	atctctatct	1260
ggcaatgtac	ccggaccagg	tgagctttct	cctcctccaa	gccaggcttt	acttccacct	1320
gggaatctgg	ccagagaagg	tgcttgacat	cctccagcac	atccaaacct	tagacccggg	1380
gcagcacggg	gcggtgggct	acctgggtgca	gcacactcta	gagcacattg	agcgcaaaaa	1440
ggaggagggtg	ggcgtagagg	tgaagctgcg	ctccgatgag	aagcacagag	atgtctgcta	1500
ctccatcggg	ctcattatga	agcataagag	gtatggctat	aactgtgtga	tctacggctg	1560
ggacccccacc	tgcatgatgg	gacacgagtg	gatccggaac	atgaacgtcc	acagcctgcc	1620
gcacggccac	caccagcctt	tctataacgt	gctgggtggag	gacggctcct	gtcgatacgc	1680
agcccaagaa	aacttggaat	ataacgtgga	gcctcaagaa	atctcacacc	ctgacgtggg	1740
acgctatttc	tcagagttta	ctggcactca	ctacatccca	aacgcagagc	tggagatccg	1800
gtatccagaa	gatctggagt	ttgtctatga	aacgggtgcag	aatattttaca	gtgcaaagaa	1860
agagaacata	gatgagtaaa	gtctagagag	gacattgcac	ctttgctgct	gctgctatct	1920
tccaagagaa	cgggactccg	gaagaagacg	tctccacgga	gccctcggga	cctgctgcac	1980
caggaaagcc	actccaccag	tagtgctggt	tgccctctac	taagtttaaa	taccgtgtgc	2040
tcttccccag	ctgcaaagac	aatgttgctc	tccgcctaca	ctagtgaatt	aatctgaaag	2100
gcaactgtgtc	agtggcatgg	cttgtatgct	tgtcctgtgg	tgacagtttg	tgacattctg	2160
tcttcatgag	gtctcacagt	cgacgctcct	gtaatcattc	tttgtattca	ctccattccc	2220
ctgtctgtct	gcattttgtct	cagaacattt	ccttggctgg	acagatgggg	ttatgcattt	2280
gcaataattt	ccttctgatt	tctctgtgga	acgtgttcgg	tcccgagtga	ggactgtgtg	2340
tctttttacc	ctgaagttag	ttgcatattc	agaggtaaa	ttgtgtgcta	tcttggcagc	2400
atcttagaga	tggagacatt	aacaagctaa	tggtaattag	aatcatttga	atttattttt	2460
ttctaataatg	tgaaacacag	atttcaagt	ttttatcttt	tttttttaaa	tttaaagggg	2520
aatataaacac	agttttccct	tccatattcc	tctcttgagt	ttatgcacat	ctctataaat	2580
cattagtttt	ctattttatt	acataaaatt	cttttagaaa	atgcaaata	tgaaactttgt	2640
gaatggattt	ttccatactc	atctacaatt	cctccatttt	aaatgactac	ttttattttt	2700
taattttaaaa	aatctacttc	agtatcatga	gtaggtctta	catcagtgat	gggttctttt	2760
tgtagtgaga	catacaaata	tgatgttaat	gtttgtctct	agaagtcata	ctccatgggtc	2820
ttcaaagacc	aaaaaatgag	gttttgcctt	tgtaatcagg	aaaaaaaaaa	attaatgaac	2880
cttaaaaaaa	aaaaaaaaag	ttttgaagg	aaaaaaagt	gtttcacacc	tcttgttatt	2940

```

ccttagagtc acttcaaggc ctgtttgaat gtggcagggt agaaagagag agaattgtctt 3000
tcatttgaag agtggttgac ttgtgtgaaa ggagatgtgc gtgttggaat ctgcttttcc 3060
aagccgccag ggtcctgacg gcagcaggac gaagcctgtt gtggcgtctt ctgggaaagc 3120
ctgaccgtgt gttcggacgg cactggctcc tttccgaagt tctcagtaac tgagcccaga 3180
gtaactgcac gcctttgtgc agctctggag ctccaccaac tctcggcctg ccagttctca 3240
agcgagctaa tcttgtcatt aatcgataga agctaacttc cgaagttagg acctagttac 3300
tttgctctca acatttaaaa taatgcagtt gctctagtga atggggcggt aggggcctgt 3360
ctctgcacct gtctgtccat ctgcatgcag tattctcacc catgttgaat gcctgctgct 3420
tgttttacct ttggaaaccc tggggtgacc aagggttgga aagccacctg agaccacttc 3480
atagcaaggg aaggctttaa gcagttacta gaaagagatg gggatttggc ccctggctcc 3540
tccagcctga atgagctatt taatccactg tccatgttcc tcatcagtca aatccaaagt 3600
caaaggattt gaacctgcat ctggaaacgt aaccactcac agcacctggc ccgccaaggt 3660
tgaggaggatt gtacactact ttcatttaaa ggggaaagtt tgataatacg gaattaatta 3720
atatgaatga gatgcattaa taagaacctg agcatgctga gagttgcaat tgttggtttt 3780
ctggtttgat tgatttcctt ttttcttaga cacatcaaag tcaagaaaga tggttttacc 3840
tttactgacc cagctgtaca tatgtatcta gactgttttt aaatgtcttt cttcatgaat 3900
gcttcatggg gctccaggaa gcctgtatca cctgtgtaag ttggtatttg ggcactttat 3960
atTTTTttaa aaacgtgttt tggatcctgt actctaataa atcataagtt tctttttaa 4020
aatTTTccaa aactTTTctc cattTTtaaa agccctgtta taaacgttga actTTcaca 4080
tgTTaaaatg tTaaatattt ggatatagca acttcttttc tcttcaaag aatgccaaga 4140
TTTTTTtgta caatgattaa taaatggaac ttatccagag 4180

```

<210> 68

<211> 6276

<212> DNA

<213> NM_012156.2| Homo sapiens erythrocyte membrane protein band 4.1-like 1 (EPB41L1), transcript variant 1, mRNA

```

<400> 68
agtcggcatc catcagcggg cgggggtgtc gccgaacagg ctgctccgca gagcccgcg 60
cgaccccgcg ccgccccgcc ccgcggcctg cctgccagag gagccgaggg ggccgcccct 120
cgcccaacct gcccgacatg gggaaccccg ggcccaggcg tgctggtcac catgacaaca 180
gagacaggcc ccgactctga ggtgaagaaa gctcaggagg aggccccgca gcagcccag 240
gctgctgccg ctgtgaccac ccctgtgacc cctgcaggcc acggccaccc agaggccaac 300
tccaatgaga agcatccatc ccagcaggac acgcggcctg ctgaacagag cctagacatg 360

```

gaggagaagg	actacagtga	ggccgatggc	ctttcggaga	ggaccacgcc	cagcaaggcc	420
cagaaatcgc	cccagaagat	tgccaagaaa	tacaagagtg	ccatctgccg	ggtcactctg	480
cttgatgcct	cggagtatga	gtgtgaggtg	gagaaacatg	gccggggcca	ggtgctgttt	540
gacctggtct	gtgaacacct	caacctccta	gagaaggact	acttcggcct	gaccttctgt	600
gatgctgaca	gccagaagaa	ctggctggac	ccctccaagg	agatcaagaa	gcagatccgg	660
agtagcccct	ggaattttgc	cttcacagtc	aagttctacc	cgcttgatcc	tgcccagctg	720
acagaagaca	tcacaagata	ctacctgtgc	ctgcagctgc	gggcagacat	catcacgggc	780
cggctgccat	gctcctttgt	cacgcatgcc	ctactgggct	cctacgctgt	gcaggctgag	840
ctgggtgact	atgatgctga	ggagcatgtg	ggcaactatg	tcagcgagct	ccgcttcgcc	900
cctaaccaga	cccgggagct	ggaggagagg	atcatggagc	tgcataagac	atataggggg	960
atgaccccg	gagaagcaga	aatccacttc	ttagagaatg	ccaagaagct	ttccatgtac	1020
ggagtagacc	tgcaccatgc	caaggactct	gagggcatcg	acatcatgtt	aggcgtttgt	1080
gccaatggcc	tgctcatcta	ccgggaccgg	ctgagaatca	accgctttgc	ctggcccaag	1140
atcctcaaga	tctcctacaa	gaggagtaac	ttctatatca	agatccggcc	tggggagtat	1200
gagcaatttg	agagcacaat	tggctttaag	ctcccaaacc	accggtcagc	caagagactg	1260
tggaaggctct	gcatcgagca	tcatacattc	ttccggctgg	tgtcccctga	gccccaccc	1320
aagggtcttc	tggatgatgg	ctccaagttc	cggtacagtg	ggaggaccca	ggcacagact	1380
cggcaggcca	gcgccctcat	tgaccggcct	gcacccttct	ttgagcgttc	ttccagcaaa	1440
cggtagacca	tgtcccgcag	ccttgatgga	gcagagttct	cccggccagc	ctcggtcagc	1500
gagaaccatg	atgcaggggc	tgacggtgac	aagcgggatg	aggatggcga	gtctgggggg	1560
caacggctcag	aggctgagga	gggagaggtc	aggactccaa	ccaagatcaa	ggagctaaag	1620
ccggagcagg	aaaccacgcc	gagacacaag	caggagtctt	tagacaagcc	agaagatgtc	1680
ttgctgaagc	accaggccag	catcaatgag	ctcaaaagga	ccctgaagga	gccaacagc	1740
aaactcatcc	accgggatcg	agactgggaa	cgggagcgca	ggctgccctc	ctccccgcc	1800
tccccctccc	ccaagggcac	ccctgagaaa	gccaatgaga	gagcagggct	gagggagggc	1860
tccgaggaga	aagtcaaacc	accacgtccc	cgggccccag	agagtgacac	aggcgatgag	1920
gaccaggacc	aggagagggg	cacggtgttc	ctgaaggaca	accacctggc	cattgagcgc	1980
aagtgtcca	gcatcacggt	cagctctacg	tctagcctgg	aggctgaggt	ggacttcacg	2040
gtcattggtg	actaccatgg	cagcgccttc	gaagacttct	cccgcagcct	gcctgagctc	2100
gaccgggaca	aaagcgactc	ggacactgag	ggcctgctgt	tctcccggga	tctcaacaag	2160
ggggccccc	gccaggatga	tgagtctggg	ggcattgagg	acagcccggg	tcgagggggc	2220
tgctccaccc	cggatatgcc	ccagtttgag	cccgtgaaaa	cagaaaccat	gactgtcagc	2280
agtctggcca	ttagaaagaa	gattgagccg	gaggccgtac	tgcagaccag	agtctccgct	2340
atggataaca	cccagcaggt	tgatgggagt	gcctcagtg	ggagggagtt	catagcaacc	2400

actccctcca	tcaccacgga	gaccatatcg	accaccatgg	agaacagtct	caagtccggg	2460
aagggggcag	ctgccatgat	cccaggccca	cagacggtgg	ccacggaaat	ccgttctctt	2520
tctccgatca	tcgggaaaga	tgtcctcacc	agcacctacg	gcgccactgc	ggaaaccctc	2580
tcaacctcca	ccaccacca	tgtcaccaaa	actgtgaaag	gagggttttc	tgagacaagg	2640
atcgagaagc	gaatcatcat	tactggggat	gaagatgtcg	atcaagacca	ggccttggt	2700
ttggccatca	aggaggccaa	actgcagcat	cctgatatgc	tggttaacca	agctgtcgta	2760
tacagagaaa	cagacccatc	cccagaggag	agggacaaga	agccacagga	atcctgacct	2820
ctgtgaagag	atcctggcat	ttctggtcca	accaagcca	gagaaccatt	aagaaggggc	2880
cttcattctg	gattctccga	cgcaacactg	acgtcccagc	tgcgacgtac	tgtcactgat	2940
gagagactgg	gaagggaaaa	gcatatatat	atagatatat	agagatatag	atatatatac	3000
aggaaacacc	gcatccttgc	actgctgctg	gggctggcag	agcagttggc	tgacagcaac	3060
aaccgacatc	tgaacaccta	catttccttt	gcagacaaat	tgaagaactg	gtgggatttt	3120
tttcaagaaa	aaaaattata	taataactat	aatcccttgc	tcaccccttt	ccccgcgcaa	3180
ataagaaacg	caagccagac	cacgatgatt	gtagaagtcc	ctcccgcct	ggttctgcac	3240
gttacagtta	gcagacgagc	aattccattt	gttcttctcc	agcatctcta	aggccactt	3300
gaatgcaaag	gaaaacactt	gcacagcaaa	gcaagagaag	tcacagcagc	aagacacgca	3360
cagtcaacca	ttttccgaga	aaaaaagaaa	attccccact	tggaaagaaa	gaggaggaac	3420
actggattct	tactttctgg	atcttgacac	tgggctgcaa	aacctacctt	cctctctccc	3480
gcctcccctc	accctcaact	ctcaatgtct	tgctgtcatt	ttctgtctcg	gctcccctct	3540
cccccttccc	ccttccccca	ccccacacc	ttcacctct	gtgtcctggg	ccttctgagg	3600
gccactgcag	atgactctcc	tttgaaatga	gaaaaagaaa	agaaagcaag	aacagaaaac	3660
gaagccacag	gaaggggaagt	agacattgta	tgcttatggg	ttctcattat	gaaggtgcag	3720
cttgtaggag	gtttgtacgg	atgtgctttg	aagttatgta	tattacatat	aacaggaaaa	3780
aatattaaaa	taaacagtgc	tggtaagtat	gaagctgaca	ttctaaaatt	ataattatct	3840
gactgtgatt	gatgtatcct	gaggttccta	gatctcactg	aactggccca	gctaaggaga	3900
cctggactct	gggtgtgggt	tggctcacag	taggggctga	cgggttcagt	gtagtaatac	3960
tgtgtgtggg	gtttgtaatt	ggttgattgg	tggggagggg	tggggggccc	taatggagag	4020
gtgtggggtt	ggcaagaaag	aagcaacaca	gatgtcgtcc	caaaatgcc	agttcaagac	4080
accttctccc	tgccccctg	gtagtaacag	tcagggcctg	gtctgtgctc	aggtactggg	4140
tcccagtctg	ggactctgct	gctgaagttg	ccacagtaga	ggtccctggc	ttagtcctta	4200
tctccctacg	gggcttgcc	tggttttcag	tcttctctct	cttctctctct	tttttttttt	4260
tttgccacat	tctgcccttc	cctgacccca	ttgtaataac	caactccata	tccaaagggg	4320
gggtggtgctc	tcagccattg	tagaagatgg	tggctttaac	ctgactgtct	aaaaattccc	4380

```

agctaagcct tttcctctac tctcttcctt gttctgaatc atttcttctt ctcaggccaa 4440
agtagccatg gtaaggaggc ttcattggggc agaccctgaa agatcaaaac tgcatttgca 4500
aagccctccc ctgtcccagg acaaagctga gactgacggg tgatgttgct cataggctcc 4560
agctctgcat aagaccttgg cttgggagacc tccctctcag tcaacagctg aactctgagc 4620
ttgtgcccag aaattacccc aagaccacag gaacccttca agaagctccc atcacaagct 4680
tggcattgct ctctgccaca cgtgggcttc ctcaggcttg tctgccacaa gctacttctc 4740
tgagctcaga aagtgtcccct tgatgagggg aaatgtccca ctgcaactgcg aatttctcag 4800
ttccatttta cctcccagtc ctccttctaa accagttaat aaattcattc cacaagtatt 4860
tactgattac ctgcttgctg cagggactat tctcaggctg aagaaggctgg gaggggaggg 4920
cggaacctga ggagccacct gagccagctt tatatttcaa ccatggctgg cccatctgag 4980
agcatctccc cactctcgcc aacctatcgg ggcataagccc agggatgcc caggcgggcc 5040
caggttagat gcgtcccttt ggcttgctcag tgatgacata caccttagct gcttagctgg 5100
tgctggcctg aggcagggga ggaaatcaga atagcatttg cttctctggg caaatgggaa 5160
gttcagcggg gcagcagaat cagtggcatt ccccttggtg caggccggtg ggtccactcc 5220
aactccccct gagtgtagca gcacactttc catacaccag gttctttcta caatcctggt 5280
ggaaaagcca cagaaccttc ttctgacctt tcttgagagt tccccctctt tctgggtcaa 5340
gagctggagt ggtggctcca tcctctctgg gccacttcgg tctaggaact catctttgca 5400
ggaaccagga gtcctgagca cactgaacac acctcagagg gaggatcctt gttgtggatt 5460
ttgcacctgg ctttggggca ggggtgaagt gaccaggctt agcttggtga gtttatgggc 5520
caccagggtt tggggaaatc accatccgc ggatgctgtg acctcccttc tacggagatg 5580
caggcagtg cagaggggag gaggggacct gcaaagctag aatctagggc actgtttcct 5640
ccccatcctt ctctttgtag agaatagaga cgtttgtctt gtctgtcttc aacctacttt 5700
tccttttctc tttttgttt ctcactctct ctgtgccacc tctccacca ggaggccatg 5760
tagcatagt gaaaaagtcc ctgagggcg ttaggagttc tgggtgacca tcctggctca 5820
gtctctaact caccatgtga catcaggcta tccccattcc ccctcttggg cctcagtttc 5880
ccgacttgca aaataagcag aaagaaccag atgctctcca gggctttttt ctactttgct 5940
atctcatggg tcttcatttt ctcttatttt gttttctctg gatcttttcc atctgagggt 6000
acaggaagta ccaggacctg tttcagtttt tgaatcctgc aagcacattc caagactggc 6060
ctgaaactgc atgagcaaca tcaactgaaa taattttttt tttcaaaagc accttaacaa 6120
ccaattgcga tgctgtcctg ttctttttta ctcacaccct tctctccttt ctcgtcccca 6180
tgctcccca cctcagtgt cctgtgtgta tgcgtgtgct ctctgttctt gtataactcaa 6240
tataagtga ataaatgtgt ttgatgctga accata 6276

```

<210> 69

<211> 1209

<212> DNA

<213> NM_173834.2| Homo sapiens hypothetical protein MGC21416 (MGC21416), mRNA

```

<400> 69
gacccgggag aaggagggcc aagatggcgg aagcggagga gtctccagga gacccgggga      60
cagcatcgcc caggcccctg tttgcaggcc tttcagatat atccatctca caagacatcc      120
ccgtagaagg agaaatcacc attcctatga gatctcgcat ccgggagttt gacagctcca      180
cattaaatga atctgttcgc aataccatca tgcgtgatct aaaagctgtt gggaaaaaat      240
tcatgcatgt tttgtaccca aggaaaagta atactctttt gagagattgg gatttgtggg      300
gccctttgat cctttgtgtg acactcgcat taatgctgca aagagactct gcagatagtg      360
aaaaagatgg agggcccaa tttgcagagg tgtttgtcat tgtctggttt ggtgcagtta      420
ccatcacct caactcaaaa ctcttgag ggaacatata tttttttcag agcctctgtg      480
tgctgggtta ctgtatactt cccttgacag tagcaatgct gatttgccgg ctggtacttt      540
tggctgatcc aggacctgta aacttcatgg ttcggctttt tgtggtgatt gtgatgtttg      600
cctggtctat agttgcctcc acagctctcc ttgctgatag ccagcctcca aaccgcagag      660
ccctagctgt ttatcctggt ttctgtttt actttgtcat cagttggatg attctcacct      720
ttactcctca gtaaatacagg aatgggaaat taaaaaccag tgaattgaaa gcacatctga      780
aagatgcaat tcaccatgga gctttgtctc tggcccttat ttgtctaatt ttggaggtat      840
ttgataactg agtaggtgag gagattaaaa gggagccata tagcactgtc accccttatt      900
tgaggaactg atgtttgaaa ggctgttctt ttctctctta atgtcatttc tttaaaaata      960
catgtgcata ctacacacag tatataatgc ctcttaagg catgatggag tcaccgtggt     1020
ccatttgggt gacaaccagt gacttgggaa gcacatagat acatcttaca agttgaatag     1080
agttgataac tattttcagt tttgagaata ccagttcagg tgcagctctt aaacacattg     1140
ccttatgact attagaatat gcctctcttt tcataaataa aaatacatgg tctaaaaaaa     1200
aaaaaaaaa                                     1209

```

<210> 70

<211> 5249

<212> DNA

<213> NM_015352.1| Homo sapiens protein O-fucosyltransferase 1 (POFUT1), transcript variant 1, mRNA

```

<400> 70
cttccctccc cgactgtgcg ccgcggctgg ctcgggttcc cgggccgaca tgggcgccgc      60
cgcgtgggca cggccgctga gcgtgtcttt cctgctgctg cttctgccgc tcccggggat     120

```

gcctgcgggc	tcctgggacc	cggccgggta	cctgctctac	tgcccctgca	tggggcgctt	180
tgggaaccag	gccgatcact	tcttgggctc	tctggcattt	gcaaagctgc	taaaccgtac	240
cttggtctgtc	cctccttggga	ttgagtacca	gcatcacaag	cctcctttca	ccaacctcca	300
tgtgtcctac	cagaagtact	tcaagctgga	gcccctccag	gcttaccatc	gggtcatcag	360
cttggaggat	ttcatggaga	agctggcacc	caccacttgg	ccccctgaga	agcgggtggc	420
atactgcttt	gagggtggcag	cccagcgaag	cccagataag	aagacgtgcc	ccatgaagga	480
aggaaacccc	tttggcccat	tctgggatca	gtttcatgtg	agtttcaaca	agtcggagct	540
ttttacaggc	atttccttca	gtgcttccta	cagagaacaa	tggagccaga	gattttctcc	600
aaaggaacat	ccggtgcttg	ccctgccagg	agccccagcc	cagttccccg	tcctagagga	660
acacaggcca	ctacagaagt	acatggtatg	gtcagacgaa	atggtgaaga	cgggagaggc	720
ccagattcat	gcccaccttg	tccggcccta	tgtgggcatt	catctgcgca	ttggctctga	780
ctggaagaac	gcctgtgcca	tgctgaagga	cgggactgca	ggctcgcact	tcatggcctc	840
tccgcagtgt	gtgggctaca	gccgcagcac	agcggccccc	ctcacgatga	ctatgtgcct	900
gcctgacctg	aaggagatcc	agagggctgt	gaagctctgg	gtgaggtcgc	tggatgcca	960
gtcgggtctac	gttgctactg	attccgagag	ttatgtgcct	gagctccaac	agctcttcaa	1020
aggggaaggtg	aagggtggtga	gcctgaagcc	tgagggtggcc	caggctcgacc	tgtacatcct	1080
cggccaagcc	gaccacttta	ttggcaactg	tgtctcctcc	ttcactgcct	ttgtgaagcg	1140
ggagcgggac	ctccagggga	ggccgtcttc	tttcttcggc	atggacaggc	cccctaagct	1200
gcgggacgag	ttctgattct	ggccggagca	ccagaccctc	tgatcctgga	gggaccagag	1260
tctgagctgg	tccttccagc	caggcctggc	agccagaggt	gctccgggat	tgcaaactcc	1320
tcttctcacc	tgccaaagat	ggagaagagt	gccagggacc	cctcaaggag	ggagacgctc	1380
catatcccag	ggcataggac	ttgcaggttc	ctaggagcag	gagcatctcc	catcgcacgt	1440
gctttctgct	cttctgggaa	tttctcacac	tggcaaagca	gtccagcctc	cgtcttctgg	1500
tccactctgc	tctgagcagc	ctgggatgct	gaactcttca	gagagatttt	tttatagaga	1560
gatttctata	atthttgatac	aaggatcatga	ctatcctaga	actctctgtg	gtttttgaaa	1620
atcattgaat	tctattaatg	taggtaccta	aagtgacctt	aactgaatgt	ggatgaggct	1680
ggggctggtg	tgggtctttt	ggctgctttt	caagggtgtcc	cccaatgtgg	ccctcaagag	1740
ccatccccac	tgcttgcca	gagccattgt	tgtcccctac	ttcctaggcc	atthtttgggg	1800
cttgggggat	gaatgctgtc	ctgtgctgta	aacactatgc	aaatggaagt	tatcggttgt	1860
ggtgctgtgc	agcgtctgt	gggcgactaa	gtgccactca	cgcagcatgt	tcctggcaag	1920
gagcacatac	catcaagcca	cactatcatg	gtattgttct	cacagtcttt	tgggtggttga	1980
tggccactgc	aaacctggca	ccatcagatc	tcttctgatc	tcttgcccca	gtggggcctg	2040
gttggtagaa	tgthtggcatt	cggthtgatat	ccaaagcctg	ttctcccagc	cgtcctcctg	2100

cagctggagc	cttcaggccg	tattctcacg	agggaaacgtt	tgccaaggct	ctgacctcac	2160
agaagatgcc	cagggcccag	aagccatcag	aattatcagt	ggagaagcac	cttttgactc	2220
ttcccttcca	atgtaatctc	tgccaacacc	atgaggctta	aggtgctcta	agtcatgagt	2280
gttttggctt	caaatgctgc	agttttaata	atctgtgact	cctgagagcc	catggttttt	2340
tgaccttggtg	gttctaaaat	tccttgtctg	accctgttag	atcttttcct	tgccatgtca	2400
cctcccttgg	cctttgatcc	tggaaagggtg	gcagagcctc	cactgagcca	ggcccagagc	2460
tccttgcagt	gccttcttcc	ttgtttacct	gtgggaggaa	acactttttt	tgtcaggggc	2520
agcctgggtc	agagctcaga	ggtcacactg	tatcaaagat	ctcaaacagc	aaagtcagca	2580
tttgctgtat	agagctgcca	cccaactcta	agcaggagaa	actgtacaga	aagggtcttg	2640
ctatttttcc	cttttgggaa	aacaatgaag	tgttttaagt	cctgggtgga	ctgagagatg	2700
gtttgcctgt	ccagacttgc	tctcaagcct	catccagaga	aggagctgca	gatgaggggag	2760
cccgtacact	ccctgccacc	actaggttgt	aagcctgtag	ctggctggct	gatttcattt	2820
tggaattcat	ttgccatcca	cagccttaca	ctaggcacac	acttttagagt	ctggggctcc	2880
agtggggccc	gcctaatttt	ttttccccc	aagacagggc	cttgctctgt	ctcccaggct	2940
ggagtgcagt	ggcatgatca	tggttactg	cagccttgat	ctcccaggct	caagcgatcc	3000
ttctgcctca	gcctctctgg	tagctgagac	tgcatgccca	gctccaaatc	accttgattc	3060
atatcagcag	taataatcac	ttgtgttctg	aaagaaagg	caccagaagt	tctagcaaaa	3120
ttcagttgtg	ttctgtgagc	tagcactttt	tcctctgacc	caattttctt	acctataaaa	3180
tggtgataaa	aaccgacagg	ttgttcaaag	gcccgatca	gctaaagcat	gtatataaga	3240
gcacgttgta	aacttgaaag	agacaaaggc	acaaatgtgg	ctgttgatta	atttgactgc	3300
ttctcgttgc	tcgtcacctc	catgccaggc	actgtgcttg	ctaattgctt	tatgggggca	3360
ttctcttatt	tattccccag	ccctgggaaa	taggagctgt	cattatcctt	ctctttctgc	3420
acaaggaaaa	attaatgccc	tgagaattgt	cataattttc	ccaaggctgc	ccagctgggtg	3480
gtgttaagcc	agaatttgac	ctcccagagc	cagtttccat	tagctgccat	gctctgctgc	3540
ctctaattca	cagaatgcac	tttctaccct	gtgtgccatg	gagacctcct	atggaaaaat	3600
gatcagccac	cttaccttct	actgggtacc	tgctgtgagt	ctgcctatgc	cagaaggatt	3660
aaggaggggga	ggttacccaa	gaaacaaagc	ctacatgccg	cttacagccc	ccgttggtatg	3720
gttgctcagt	acaacagtct	tgcattcagc	aggtgtttgt	tcatcaccta	ctatgtgtca	3780
ggctctatgc	taggtactgg	ggatacagga	gagaatcaag	cgtaaagtct	ttgtttctcaa	3840
ggaatttgca	ttctagaaag	tagaagatgt	aataaatgta	ctgtgggaca	tggttaataag	3900
tgctataaag	aaatataaag	ggtttgggag	caaaaagagg	gagtggatct	atttttagatg	3960
agcccaggta	agacctctct	gaagagctgt	catgaaggag	ggaggggagca	cattcctggc	4020
agagaaaaca	gcacgtgcaa	aggccccgag	actggagtgt	gttctgaag	agcagccagg	4080
aggccagcat	ggctggagag	gcaggcatag	gcagggaacc	gagcagcagg	tcagagcagg	4140

```

cgagctgaca ttctgcagcc tggacggcca tggcaggaag ctttttagttg gagagataca 4200
ggaagcctcc tagggttctg agcagaagag gggcatgagc tgattcacat tctgaaggac 4260
ctctctagct ggccagtgtt gaggaggttg gagagagaaa gggtgaaagc agagagacca 4320
gtgcaggggt gttaacaggg ttgcaggcga gagactgggg tgctgggctc ccctagacta 4380
ggactccagt gccctcctct cccaagagac aaaggccatt gcattgaagg aggtgggaaa 4440
tgattagatt ctgaacatat gtaattatct ttcagtcttt ttcaaagata caaatattta 4500
catagtttta atcatgtaat atatacaatt taatgtccta gtgttttact taatagtgt 4560
tcatgttttc cctgttggtg tgtagcctgg ataaatgctc ttaattataa aaaattctgt 4620
cgaggagtgt tccatagttt attgttttcc tattatgaga atttaggcca agtgtggtgg 4680
ctcatgcctg taatcccagc actttgcgag gccgaggtgg gcagatcact tgagggtgagg 4740
agttcaagac cagcctggcc aacatggtga attatctcta ctaaaatac aaaaaataa 4800
taataatagc caggcgtggt ggcacatgcc tgtattccca gctgcttggg aggctgaggc 4860
aggagaatgg cttgaacctg ggaggtggag gttgcagtga gccgagatgg tgccactgca 4920
ttccagcctg ggcaacagag cgagactcca tctcaaaaaa aaggagactt catgtgcccc 4980
caatttttca ctattgttat ttgaaaaaat atttttatct gtaagagttt ttctttatct 5040
aaaatgttca ttaataaagt tgttggacgg gaagcaaaaa aaaaaagttg ttttaagataa 5100
attcccagaa gtgaatttgt tagatcaaac acttaaaact ttttgttatg gaagaattca 5160
aatataaata aaaaattgtg agtaataaaa tgaactcaca gtttcaacaa tgaccacaaa 5220
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 5249

```

<210> 71

<211> 722

<212> DNA

<213> NM_175617.2| Homo sapiens metallothionein 1E (functional) (MT1E), mRNA

<400> 71

```

cttgttcgtc tctactggtgt gagctccagc atccccctttg ctcgaaatgg accccaactg 60
ctcttgcgcc actggtggct cctgcacgtg cgccggctcc tgcaagtgca aagagtgcaa 120
atgcacctcc tgcaagaaga gtgagtgcgg ggccatctcc aggaatctgg ggctgtggct 180
cagggttgga gggaaactcaa ggctggccct gagtgcattc ttctggggaa ctgggctttc 240
tttgccctca ttgcccgtgt cattccctct ccaggctttc tgccctaaat tcagatgggg 300
caggacagca tttttctcgt gggacacaaa cccaactgt accccctatg gtttcagaac 360
agagctgtgc cagacgaaaa aaagcatcct ctgggtctgg gttctgagct cgagccaggc 420
ttgctattag ggcagggagg tgcccgggtca agtctactgc cacctctcac tctccccttc 480

```

```

ttccccaggc tgctgttcct gctgccccgt gggctgtgcc aagtgtgccc agggctgcgt    540
ctgcaaaggg gcatcggaga agtgcagctg ctgtgcctga tgtgggaaca gctcttctcc    600
cagatgtaaa tagaacaacc tgcacaacct ggatTTTTTT aaaaatacaa cactgagcca    660
tttgcctgat ttctttttat actaaatatg tgactgacaa taaaaacaat tttgacttta    720
aa                                                                    722

```

<210> 72

<211> 980

<212> DNA

<213> NM_003283.3| Homo sapiens troponin T1, skeletal, slow (TNNT1), mRNA

```

<400> 72
agcaaggctc agcctcaaga ttcacagcat ctcagacgca gcctaggccg caccaggatg    60
tcggacaccg aggagcagga atatgaggag gagcagccgg aagaggaggc tgcggacgag    120
gaggaggaag cccccaaga gccggagccg gtggcagagc cagaagagga acgccccaaa    180
ccaagccgcc ccgtggtgcc tcctttgatc ccgccaaaga tcccagaagg ggagcgcggt    240
gacttcgatg acatccaccg caagcgcgat gagaaagacc tgctggagct gcagacactc    300
atcgatgtac atttcgagca gcggaagaag gaggaagagg agctggttgc cttgaaggag    360
cgcattgagc ggcgccggtc agagagagcc gagcaacagc gcttcagaac tgagaaggaa    420
cgcgaaacgtc aggctaagct ggcggaggag aagatgagga aggaagagga agaggccaag    480
aagcgggacg aggatgatgc caagaaaaag aagggtgctgt ccaacatggg ggcccatTTT    540
ggcggctacc tgggtcaaggc agaacagaag cgtggtaagc ggcagacggg gcgggagatg    600
aagggtgcgca tcctctccga gcgtaagaag cctctggaca ttgactacat gggggaggaa    660
cagctccggg cccgggtctgc ctggctgcct ccatcacagc cctcctgccc tgccagggag    720
aaagcccagg agctgtcggg ctggatccac cagctggagt ctgagaagtt cgacctgatg    780
gcgaagctga aacagcagaa atatgagatc aacgtgctgt acaaccgcat cagccacgcc    840
cagaagttcc ggaagggggc agggaagggc cgcgttgagg gccgctggaa gtgaggatgc    900
cgccccggac agtggcacct ggggaagcctg ggagtgtttg tcccatcggt agcttgaaat    960
aaacgctccc ctcagacacc                                                                    980

```

<210> 73

<211> 2213

<212> DNA

<213> NM_004067.1| Homo sapiens chimerin (chimaerin) 2 (CHN2), mRNA

```

<400> 73
gggcgtgcaa aggcgcggag cgggacggaa accacaaata aatagcggcg gcggcagcgc      60
gtcatctggt ggagcaggaa gtgcaggcag agtccggagg ctggtgcttt ctgcgcgtcc      120
ccaggacttt gccatgggct gggggccgcg gaggctgcga gcggccgggc gagggcagcg      180
gcggcggcgt cccacccggg gctgagcgag cagcgacgcg aggggcgcgc ggagatggca      240
gcgtccagca actccagcct gtccggctcg tcggtgtcct ccgatgctga agaataccag      300
cctcctatat ggaaatcata cttatatcag ttacagcaag aggcacctcg tccaagaga      360
atcatttgtc ctccggagggt ggaaaacaga ccaaataatt atggaagaga gtttcatggg      420
atcatctctc gggagcaggc ggatgagctt cttggaggcg tggagggtgc ctacatcctt      480
agagaaagcc agcggcaacc aggatgctac acgctggctc tcaggtttgg aaaccagacc      540
ttaaactaca ggctcttcca cgacgggaaa cactttgtgg gtgagaagag gtttgagtcg      600
attcatgatc tggtgacaga tggcttgata acactgtaca tagaaacaaa agctgccgag      660
tacatttcaa aaatgacaac taaccccatc tatgaacaca ttggatatgc caccctactc      720
agagaaaaag tatccagaag gctgagcagg tctaaaaatg aaccaagaaa aacaaacgtc      780
acacatgaag aacacacagc ggtggaaaag atctcctccc tggttcgaag ggctgccctc      840
acacacaacg acaaccactt caattatgag aagacacaca actttaaggt ccacacgttc      900
cgaggcccac actggtgtga atattgtgcc aatttcatgt gggggctcat cgccaaggg      960
gtccggtgct cagactgtgg attgaacgta cacaacagat gttccaagca cgttccaat      1020
gactgccaac ctgatctcaa gaggatcaag aaagtgtact gttgtgacct cacaacactt      1080
gtgaaggctc acaacactca gagaccatg gtggtagaca tatgcattcg ggaaattgaa      1140
gcaagaggat taaaatcgga aggcctttac agagtctctg ggttactga acacattgaa      1200
gatgtcaaaa tggcatttga cagagatggt gaaaaggccg atatatctgc caatgtctat      1260
ccagacataa acatcatcac tggagccctt aaactgtatt tcagagactt acccatccct      1320
gtcatcacat atgataccta ttccaaattt atagatgcag caaaaatctc caatgcagat      1380
gagaggctgg aagccgtcca tgaagtgtcg atgctgctgc ctctgccca ctatgaaacc      1440
ctccggtacc taatgatcca cctcaaaaag gttactatga atgaaaaaga caatttcatg      1500
aatgcagaaa atctggggat cgtgttttggg cccactctga tgaggcccc tgaggacagc      1560
accctgacca ccctgcatga tatgcggtac caaaagctga ttgtgcagat tttaatagaa      1620
aacgaagacg ttttattcta atccatcagg gaaatgagct gaatggccca gcaccatcaa      1680
gttgacacag ctaaggataa aacatttctt accacttgat ttgttttcca agcaagtgtc      1740
agaatttgct ggactgcaga ggatcgctga gtggggtact gtgtctcata gacatgcgcc      1800
acctccacgt gagaacaagg gtgaagggtga gggagcccc tcaggtttggg tcttttctg      1860
tgctccttat gtatgtctgg tttgctggaa gagtgattaa tacatcttta atttattaaa      1920
aaacaatgta gacctttaaa cttcagtctt attgggaata aaagggaact taattcatac      1980

```

aggtacttga	tacagttata	cattttccac	ttacaaaaag	aagacaattc	tggttaaata	2040
aacgtgtatc	gtaaaatgta	attttattta	cccacgagaa	tggtgttatt	ttagcaatag	2100
aactcaatgc	agatgcattg	gttattaccc	tgtgtacctt	gtccctcatt	ttgctgtgac	2160
accctgaaaa	agctgaccac	aaatgcagta	ttatcattga	catacctctg	tcc	2213

<210> 74

<211> 2201

<212> DNA

<213> NM_005520.1| Homo sapiens heterogeneous nuclear ribonucleoprotein H1 (H) (HNRPH1), mRNA

<400> 74	tttttttttt	cgtcttagcc	acgcagaagt	cgcggtgtcta	gtttgtttcg	acgccggacc	60
	gcgtaagaga	cgatgatggt	gggcacggaa	ggtggagagg	gattcgtggt	gaagggtccgg	120
	ggcttgccct	ggtcttgctc	ggccgatgaa	gtgcagagggt	ttttttctga	ctgcaaaatt	180
	caaaatgggg	ctcaagggtat	tcgtttcatc	tacaccagag	aaggcagacc	aagtggcgag	240
	gcttttggtg	aacttgaatc	agaagatgaa	gtcaaattgg	ccctgaaaaa	agacagagaa	300
	actatgggac	acagatatgt	tgaagtattc	aagtcaaaca	acgttgaaat	ggattgggtg	360
	ttgaagcata	ctggtccaaa	tagtcctgac	acggccaatg	atggctttgt	acggccttaga	420
	ggacttccct	ttggatgtag	caaggaagaa	attgttcagt	tcttctcagg	gttggaatc	480
	gtgccaaatg	ggataacatt	gccggtggac	ttccagggga	ggagtacggg	ggaggccttc	540
	gtgcagtttg	cttcacagga	aatagctgaa	aaggctctaa	agaaacacaa	ggaaagaata	600
	gggcacaggt	atattgaaat	ctttaagagc	agtagagctg	aagttagaac	tcattatgat	660
	ccaccacgaa	agcttatggc	catgcagcgg	ccaggctcct	atgacagacc	tggggctggt	720
	agagggtata	acagcattgg	cagaggagct	ggctttgaga	ggatgaggcg	tggtgcttat	780
	ggtggaggct	atggaggcta	tgatgattac	aatggctata	atgatggcta	tggatttggg	840
	tcagatagat	ttggaagaga	cctcaattac	tgtttttcag	gaatgtctga	tcacagatac	900
	ggggatggtg	gctctacttt	ccagagcaca	acaggacact	gtgtacacat	gcgggggatta	960
	ccttacagag	ctactgagaa	tgacatttat	aatttttttt	caccgctcaa	ccctgtgaga	1020
	gtacacattg	aaattgggtc	tgatggcaga	gtaactggtg	aagcagatgt	cgagttcgca	1080
	actcatgaag	atgctgtggc	agctatgtca	aaagacaaaag	caaatatgca	acacagatat	1140
	gtagaactct	tcttgaattc	tacagcagga	gcaagcgggtg	gtgcttacga	acacagatat	1200
	gtagaactct	tcttgaattc	tacagcagga	gcaagcgggtg	gtgcttatgg	tagccaaatg	1260
	atgggaggca	tgggcttgct	aaaccagtcc	agctacgggg	gcccagccag	ccagcagctg	1320
	agtggggggt	acggaggcgg	ctacggtggc	cagagcagca	tgagtggata	cgaccaagtt	1380

```

ttacaggaaa actccagtga ttttcaatca aacattgcat aggtaaccaa ggagcagtga 1440
acagcagcta ctacagtagt ggaagccgtg catctatggg cgtgaacgga atgggaggggt 1500
tgtctagcat gtccagtatg agtggtggat ggggaatgta attgatcgat cctgatcact 1560
gactcttggg caaccttttt tttttttttt ttttctttaa gaaaacttca gtttaacagt 1620
ttctgcaata caagcttgtg atttatgctt actctaagtg gaaatcagga ttgttatgaa 1680
gacttaaggc ccagtatttt tgaatacaat actcatctag gatgtaacag tgaagctgag 1740
taaactataa ctgttaaact taagttccag cttttctcaa gttagttata ggatgtactt 1800
aagcagtaag cgtatttagg taaaagcagt tgaattatgt taaatgttgc cctttgccac 1860
gttaaattga acactgtttt ggatgcatgt tgaaagacat gcttttattt tttttgtaaa 1920
acaatatagg agctgtgtct actattaaaa gtgaaacatt ttggcatgtt tgtaattctt 1980
agtttcattt aataacctgt aaggcacgta agtttaagct tttttttttt ttaagttaat 2040
gggaaaaatt tgagacgcaa taccaatact taggattttg gtcttggtgt ttgtatgaaa 2100
ttctgaggcc ttgatttaaa tctttcattg tattgtgatt tccttttagg tatattgcgc 2160
taagtgaaac ttgtcaaata aatcctcctt ttaaaaactg c 2201

```

<210> 75

<211> 1895

<212> DNA

<213> NM_004046.4| Homo sapiens ATP synthase, H⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle (ATP5A1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA

```

<400> 75
gtcttgacct tctttgcggc tcggccattt tgtcccagtc agtccggagg ctgcggctgc 60
agaagtaccg cctgcggagt aactgcaaag atgctgtccg tgcgcgttgc tgcggccgtg 120
gtccgcgccc ttctcggcg ggccggactg gtctccagaa atgctttggg ttcattcttc 180
attgctgcaa ggaacttcca tgccctaac actcatcttc aaaagactgg gactgctgag 240
atgtcctcta ttcttgaaga gcgtattctt ggagctgata cctctgttga tcttgaagaa 300
actgggcgtg tcttaagtat tgggtgatgg attgcccgcg tacatgggct gaggaatgtt 360
caagcagaag aaatggtaga gttttcttca ggcttaaagg gtatgtcctt gaacttgga 420
cctgacaatg ttggtgttgt cgtgtttgga aatgataaac taattaagga aggagatata 480
gtgaagagga caggagccat tgtggacgtt ccagttggtg aggagctgtt gggtcgtgta 540
gttgatgccc ttggtaatgc tattgatgga aagggtccaa ttggttccaa gacgcgtagg 600
cgagttgggtc tgaaagcccc cggtatcatt cctcgaattt cagtgcggga accaatgcag 660
actggcatta aggctgtgga tagcttggtg ccaattgggtc gtggtcagcg tgaactgatt 720
attggtgacc gacagactgg gaaaacctca attgctattg acacaatcat taaccagaaa 780

```



```

cgtttcaatg atggatctga tgaaaagaag aagctgtact gtatttatgt tgctattggg 840
caaaagagat ccactgttgc ccagttggtg aagagactta cagatgcaga tgccatgaag 900
tacaccattg tgggtgtcggc tacggcctcg gatgctgccc cacttcagta cctggctcct 960
tactctgggt gttccatggg agagtatttt agagacaatg gcaaacaatgc tttgatcatc 1020
tatgacgact tatccaaaca ggctgttgct taccgtcaga tgtctctgtt gctccgccga 1080
ccccctgggt gtgaggccta tcctgggtgat gtgttctacc tacactcccg gttgctggag 1140
agagcagcca aaatgaacga tgcttttggg ggtggctcct tgactgcttt gccagtcata 1200
gaaacacagg ctggtgatgt gtctgcttac attccaacaa atgtcatttc catcactgac 1260
ggacagatct tcttggaac agaattgttc tacaaggta tccgccctgc aattaacgtt 1320
ggctctgtctg tatctctgtg cggatccgct gcccaaacca gggctatgaa gcaggtagca 1380
ggtagcatga agctggaatt ggctcagtat cgtgaggttg ctgcttttgc ccagttcggt 1440
tctgacctcg atgctgccac tcaacaactt ttgagtcgtg gcgtgcgtct aactgagttg 1500
ctgaagcaag gacagtattc tcccatggct attgaagaac aagtggctgt tatctatgcg 1560
gggtgaaggg gatattctga taaactggag cccagcaaga ttacaaagtt tgagaatgct 1620
ttcttgtctc atgtcgtcag ccagcaccaa gccttggttg gcactatcag ggctgatgga 1680
aagatctcag aacaatcaga tgcaaagctg aaagagattg taacaaatth cttggctgga 1740
tttgaagctt aaactcctgt ggattcacat caaataaccag ttcagttttg tcattgttct 1800
agtaaattag ttccatttgt aaaagggtta ctctcatact ccttatgtac agaaatcaca 1860
tgaaaaataa aggttccata atgcatagtt aaaaa 1895

```

<210> 76

<211> 1290

<212> DNA

<213> NM_001970.3| Homo sapiens eukaryotic translation initiation factor 5A (EIF5A), mRNA

```

<400> 76
gcggcgggcg cggtagaggc ggcggcgggc gcggcagcgg gctcggaggc agcggttggg 60
ctcgcggcga gcggacgggg tcgagtcagt gcgttcgcgc gagttggaat cgaagcctct 120
taaaatggca gatgacttgg acttcgagac aggagatgca ggggcctcag ccaccttccc 180
aatgcagtgc tcagcattac gtaagaatgg ctttgtggtg ctcaaaggcc ggccatgtaa 240
gatcgtcgag atgtctactt cgaagactgg caagcacggc cagccaagg tccatctggt 300
tggtattgac atctttactg ggaagaaata tgaagatata tgcccgtcaa ctcataatat 360
ggatgtcccc aacatcaaaa ggaatgactt ccagctgatt ggcatccagg atgggtacct 420
atcactgctc caggacagcg gggagggtacg agaggacctt cgtctccctg agggagacct 480

```

```

tggcaaggag attgagcaga agtacgactg tggagaagag atcctgatca cgggtgctgtc 540
tgccatgaca gaggaggcag ctgttgcaat caaggccatg gcaaaataac tggctcccag 600
gatggcgggtg gtggcagcag tgatcctctg aacctgcaga ggccccctcc ccgagcctgg 660
cctggctctg gcccggtcct aagctggact cctcctacac aatttatttg acgttttatt 720
ttggttttcc ccaccccctc aatctgtcgg ggagcccctg cccttcacct agctcccttg 780
gccaggagcg agcgaagctg tggccttggt gaagctgccc tcctcttctc ccctcacact 840
acagccctgg tgggggagaa ggggggtgggt gctgcttggt gtttagtctt tttttttttt 900
tttttttttt ttttaaattc aatctggaat cagaaagcgg tggattctgg caaatgggtcc 960
ttgtgccctc cccactcatc cctggtctgg tcccctgttg cccatagccc tttaccctga 1020
gcaccacccc aacagactgg ggaccagccc cctgcctgct ctgtgtctct ccccaaacc 1080
ctttagatgg ggaggggaaga ggaggagagg ggaggggacc tgccccctcc tcaggcatct 1140
gggagggccc tgcccccatg ggctttaccc ttccctgcgg gctctctccc cgacacattt 1200
gttaaaatca aacctgaata aaactacaag tttaatatga aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1290

```

<210> 77

<211> 2512

<212> DNA

<213> NM_005041.3| Homo sapiens perforin 1 (pore forming protein) (PRF1), mRNA

```

<400> 77
ggctgggtgca aggagccaca gtgggctgcc tggggggctg atgccaccat tccaggagcc 60
tcggtgaaga gaggatatcc atctgtgtag ccgcttctct atacgggatt ccagctccat 120
ggcagcccggt ctgctcctcc tgggcatacct tctcctgctg ctgccccctgc ccgtccctgc 180
cccgtgccac acagccgcac gctcagagtg caagcgcagc cacaagttcg tgcctgggtgc 240
atggctggcc ggggaggggtg tggacgtgac cagcctccgc cgctcgggct ccttcccagt 300
ggacacacaa aggttcctgc ggcccagcgg cacctgcacc ctctgtgaaa atgccctaca 360
ggagggcacc ctccagcgcc tgcctctggc gctcaccaac tggcggggccc agggctctgg 420
ctgccagcgc catgtaacca gggccaaagt cagctccact gaagctgtgg cccgggatgc 480
ggctcgtagc atccgcaacg actggaaggt cgggctggac gtgactccta agcccaccag 540
caatgtgcat gtgtctgtgg ccggctcaca ctacaggca gccaaacttg cagcccagaa 600
gacccaccag gaccagtaca gcttcagcac tgacacgggt gagtgccgct tctacagttt 660
ccatgtggta cacactcccc cgctgcaccc tgacttcaag agggccctcg gggacctgcc 720
ccaccacttc aacgcctcca ccagcccgc ctacctcagg cttatctcca actacggcac 780

```

```

ccacttcacg cgggctgtgg agctgggtgg ccgcataatcg gccctcactg ccctgcgcac      840
ctgcgagctg gccctggaag ggctcacgga caacgaggtg gaggactgcc tgactgtcga      900
ggcccagggtc aacataggca tccacggcag catctctgcc gaagccaagg cctgtgagga      960
gaagaagaag aagcacaaga tgacggcctc cttccaccaa acctaccggg agcgccactc    1020
ggaagtgggtt ggcggccatc acacctccat taacgacctg ctgttcggga tccaggccgg    1080
gcccagagcag tactcagcct gggtaaaactc gctgcccggc agccctggcc tgggtggacta    1140
caccctggaa cccctgcacg tgctgctgga cagccaggac ccgcggcggg aggcaactgag    1200
gagggccctg agtcagtacc tgacggacag ggctcgctgg agggactgca gccggccctg    1260
cccaccaggg cggcagaaga gcccccgaga cccatgccag tgtgtgtgcc atggctcagc    1320
ggtcaccacc caggactgct gccctcggca gaggggcctg gccagctgg aggtgacctt    1380
catccaagca tggggcctgt ggggggactg gttcactgcc acggatgcct atgtgaagct    1440
cttcttttgtt ggccaggagc tgaggacgag caccgtgtgg gacaataaca accccatctg    1500
gtcagtgcgg ctggattttt gggatgtgct cctggccaca ggggggcccc tgaggttgca    1560
ggctctgggat caggactctg gcagggacga tgacctcctt ggcacctgtg atcaggctcc    1620
caagtctggt tcccatgagg tgagatgcaa cctgaatcat ggccacctaa aattccgcta    1680
tcatgccagg tgcttgcccc acctgggagg aggcacctgc ctggactatg tccccaaat    1740
gcttctgggg gagcctccag gaaaccggag tggggccgtg tggtgagaac agtgagcttg    1800
gaaaggacca gtatgcttgg actgaagggg ttctcacagt gggagccagg gctgtcttcg    1860
tattcccatt agaccaagct tgtccaaccc gagggccgca tgcggcccag gatggctttg    1920
aatgcggccc aacgcaaatt cgcaaacttt cttaaaacat tatgagtttc tttttgctat    1980
tttttttttt tttttagctc atcggctatc gttagtgtga gtggatttta catgtggccc    2040
aacacaattc ttcttccaac gtggcccaga gaagccaaaa gattggatac gcatcagaca    2100
gatggaaaag ggagattcag actgtttttt agggaggttg ctgggtttac acgctaattc    2160
cgattcacc tgtccaaact gcctaagccc tccgccattc tcaagccctg cagtcacagc    2220
tacacagatc acagcttcag ccaggagctg ggcaagaagg caagaggctg tccccaccag    2280
gctgctcagg gctgggtctt taggaccctt cccttgagcc ctctatggtg tggcaaagcc    2340
ttcattgcct taactggagc cccatcagct ccagctgtc tgtcttcttt gccacaatg    2400
ctttgcccct gagacaaatg gaggcctgtc ctgacctgtc tcaccatgta catagcttga    2460
taaagggcca ataaatatga tgttatggtg aaaaaaaaaa aaaaaaaaaa aa          2512

```

<210> 78

<211> 4623

<212> DNA

<213> NM_014965.2| Homo sapiens OGT(O-Glc-NAC transferase)-interacting protein
106 kDa (OIP106), mRNA

<400> 78
gatgctgggc caggagcttt gtgtacaccc ctccacttca gctgagccag ggcatgtctg 60
cggcccaggc cagggcgagc tgtgtgccct gggggcccag gcctgcatgg ctccctctggg 120
tagggggctg ggggcacccc caaggatggt cccttagggg gatgttttgg ctttgggggtg 180
acttcagcaa tgtccctgag agacaagggc ggggaagaag aatgttttga atacgactgc 240
caggatgaag agaggaagcc aaccacagc cagcatgaca ccagagacct cttggaagag 300
gttttatgtg ctgaaagagt tggccagatg actaagacat ataatgacat agatgctgtc 360
actcggcttc ttgaggagaa agagcgggat ttagaattgg ccgctcgcat cggccagtcg 420
ttgttgaaga agaacaagac cctaaccgag aggaacgagc tgctggagga gcaggtggaa 480
cacatcaggg aggaggtgtc tcagctccgg catgagctgt ccatgaagga tgagctgctt 540
cagttctaca ccagcgtgct ggaggagagt gagcccagct ccgtttgctc aaccccgctg 600
aagaggaatg agtcgtcctc ctcaagtccg aattactttc atttggattc tcttcaaaag 660
aagctgaaag accttgaaga ggagaatggt gtacttcgat ccgaggccag ccagctgaag 720
acagagacca tcacctatga ggagaaggag cagcagctgg tcaatgactg cgtgaaggag 780
ctgagggatg ccaatgtcca gattgctagt atctcagagg aactggccaa gaagacggaa 840
gatgctgccc gccagcaaga ggagatcaca cacctgctat cgcaaatagt tgatttgcag 900
aaaaaggcaa aagcttgctc agtggaaaat gaagaacttg tccagcatct gggggctgct 960
aaggatgccc agcggcagct cacagccgag ctgctgtagc tggaggacaa gtacgcagag 1020
tgcatggaga tgctgcatga ggcgcaggag gagctgaaga acctccggaa caaaaccatg 1080
ccaataacca cgtctcggcg ctaccactca ctgggcctgt ttcccatgga ttccttggca 1140
gcagagattg agggaaacgat gcgcaaggag ctgcagttgg aagaggccga gtctccagac 1200
atcactcacc agaagcgtgt ctttgagaca gtaagaaaca tcaaccaggt tgtcaagcag 1260
agatctctga ccccttctcc catgaacatc cccggctcca accagtcctc ggccatgaac 1320
tccctcctgt ccagctgctg cagcaccacc cgggtccagct tctacggcag cgacataggc 1380
aacgtcgtcc tcgacaacaa gaccaacagc atcattctgg aaacagaggc agccgacctg 1440
ggaaacgatg agcggagtaa gaagccgggg acgccgggca cccagggctc ccacgacctg 1500
gagacggcgc tgaggcggct gtccctgcgc cgggagaact acctctcgga gaggagggtt 1560
tttgaggagg agcaagagag gaagctccag gagctggcgg agaagggcga gctgcgcagc 1620
ggctccctca caccactga gagcatcatg tccctgggca cgcactcccg cttctccgag 1680
ttcaccggct tctctggcat gtccttcagc agccgctcct acctgcctga gaagctccag 1740
atcgtgaagc cgctggaagg ttccgccaca cttcaccact ggcagcagtt ggcccaacct 1800
caccttgggg gcacacctga ccccgggccc ggtgtggtca ccaagggctt ccggacgctg 1860

gatgttgacc	tggaacgaagt	gtactgcctt	aacgactttg	aagaagatga	cacaggtgac	1920
cacattttctc	tcccacgcct	agctacctcc	actccagttc	agcaccacaga	gacctcaggt	1980
gagaggtccc	aagcacgtgt	gactgtctca	ggcagcagaa	gttaccacgag	ccggcctcag	2040
gctttcccag	aggagatgca	ggagccgcca	gcggccacgg	aggaggagga	ggaggaggag	2100
gaggaggagg	ggtctggtga	gggcaccacg	ataagtcctg	taaacttggc	acctttcccg	2160
gaggcagagt	tttggggccat	tctcacctct	gttccaggca	ccatccgtag	tggttctctg	2220
tctgtagctt	ccgctcgtct	gtgtgggtga	tgattaaagc	attctcattg	cacagttctg	2280
tttttaata	cagagtctga	tgcttcctat	ttgtaacaat	gggtgtagct	cccctgccc	2340
tcttgagggt	gcatggccca	tcagggatct	ttaaagtggg	agcaggaaag	gctgctaaaa	2400
aaaaaaaaa	aaaaagtggg	cttttgggtc	cctgaaaaca	tcagtgccct	tcttcctggt	2460
ctgggtgtct	ccctgagtct	aaggggaaga	ttctcaagtc	ccctggtgat	ttccaagtgg	2520
agctgagcag	ttttagggaa	attgagtgtc	gggtcattca	gaaggtaa	gagatcatct	2580
gttacctgta	cgctgtatta	aaatagaacc	aggaaaggct	caggatttca	gacatttcgt	2640
cagccttttc	actttcccag	cttcaatgga	ggatatatatg	tcattttctt	ttcagcttac	2700
acatgtgttc	aaagtggatt	tttaaaaagt	gttttagcaa	tactccttaa	ccaaataaac	2760
cttcggagaa	catcactaag	cttttccaga	gagaagaccc	tagatgaagt	tggaaaagag	2820
ctctggctga	ctccaccac	tgtccccaag	cattaaagggt	gtggccatga	gtttacagaa	2880
ttaccacat	tccagttgcc	actgggatga	aaagctttgt	gctcagagct	ctgggaatca	2940
tgggatcaca	tggttactgt	ttacccaac	agcatgctct	gtctagactg	gacctcccag	3000
ccccttgtgt	tgggaaggca	aagcttttgt	ggagtcaggg	gggagactga	gaaaaaatga	3060
attaaccctg	tgttgatcatc	ctcatgacat	tcctgaggat	tcaccagggt	agaagtgagg	3120
acgtttatct	ttgtgattca	taattttcat	ttgtgaaggc	cacaacactc	cccttgaaat	3180
acagggcagg	aaagagctga	ggttcttgggt	ggtgtctccc	attcccctgg	ctaatttcag	3240
acagctgtgg	tcaagggatt	ttacttggga	tcaacttttc	cttttttcct	tgacattaat	3300
tttagagaag	tcatcaagtc	atgtgatttg	tttagcacat	aggcttattt	atggtttgat	3360
tttttttagg	cagttatatt	actagattaa	gcttgtgagg	gaatgaaaat	gttttttatt	3420
tgttatctac	acactcgaaa	aagagaaacc	agctgcggta	ctgtcccatt	tttgtcatca	3480
gcaccagtgt	ccgtcaggaa	ggcaggtggt	ggtgcagaaa	catgatgcct	ggctgatttt	3540
cgtggctaaa	ggggtaggcc	ttatgttgat	tgggatgctc	ccctacagcc	ttacaggtag	3600
aatagaagggt	gagttctgga	agtgcacaaga	agcaccatta	agtgcattct	ctagaagttg	3660
tacagaagga	ctaaagctta	tcaagtcaac	aaagaactta	ccttgaggga	tagagagaga	3720
gaagggacca	attatgagga	ctgacatcct	ggccactctc	cttaaaataa	acactgacat	3780
ttttcttgct	tgttctctct	gtactcaaac	ctgtggcaaa	ttcatcctag	caacgttatt	3840

```

tgacgagggg catgaacatt tatagttgaa actgtagaaa gggtcagggtt ggaggtgtgt 3900
aataaaaaag aattacctag gttgccaaag gtaatttagg aagggctctga tcatttagat 3960
gagagttcctt tggggcttat tttctgggta aggctcatct ttaaaaactg gcttcagagg 4020
ggagagggga gaacaatgaa ttggctctat tttctctatt gggaattaca ggaccatttt 4080
gattcttaga atgtaaaaag catatcgcta agtaaatacat cctggagggtc ccaagtagct 4140
ctatgcctgc aatcatggag acacaggcag acagataagc ttcattgggga aggcattggg 4200
catcctctgt cttgggattt gtatccatgg tggctctggc cctgcctttt aatccgtcct 4260
ctacgcttgg gcttttctgt taccaaacag cactatccca ggaactattg tctgcctggg 4320
aacactcagt agggagacac tttggagaca ggaggtgatg aaccttttta tgtgcagctg 4380
gtatgataga aggaaattgg gaaaacttgt atgctaggca cttttgtcca gagcctgctg 4440
tcccatggag aaaaagtttt aagcactgaa aaaatttgat taatgtattt aaatgtatta 4500
tttgaagcat cattcacttg ttgattttta caatcccatg tcttaaaaag gatgaatcca 4560
tgttattgta ttgtaaataa tttagattat taaaatggat tgtttaaaaa aaaaaaaaaa 4620
aaa 4623

```

<210> 79

<211> 2657

<212> DNA

<213> NM_017895.6| Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 (DDX27), mRNA

```

<400> 79
aagtgacgca tggctacttgc gcaaagacga cgaggaggct gcgaaaagt aagggccgga 60
ccgcaggctg tgctcgcttc cggaagtggc ttctgcgaca acatgcttgc ggacctcggc 120
ttaatcggaa ccataggcga ggatgacgag gtgccgggtg agcccgagtc tgactccggg 180
gacgaggaag aggagggggc cattgtgctg ggcagacgac aaaaagcttt ggggaagaac 240
cgcagtgtg atttcaaccc tgatttcgtt ttcactgaga aggaggggac gtacgatggc 300
agctggggccc tggctgatgt catgagccaa ctcaagaaga agagggcgag cactacatta 360
gatgagaaga ttgagaaagt tcgaaagaaa aggaaaacag aggataaaga agccaagtct 420
gggaagtgg aaaaggagaa agaagcaaag gaaggctctg aaccaaagga gcaggaagac 480
cttcaagaga atgatgagga aggtcagaa gatgaagcct cgagagactga ctactcatca 540
gctgatgaga acatcctcac caaagcagat acactcaaag taaaggatcg gaagaagaag 600
aagaagaaag gacaggaagc aggaggattt tttgaagatg catctcagta cgatgaaaac 660
ctctcgttcc aggacatgaa cttttccgc cctcttctga aggccattac agccatgggc 720
ttcaagcagc ccaccccgat ccagaaggcg tgcatacctg tgggtctatt ggggaaggac 780

```

```

atctgtgcct gtgcagccac tgggacaggt aaaactgccg cctttgccct gcctgttttg 840
gagcgtctga tttataaacc ccgccaggct ccagtcaccc gcgtgctggg gctagtgtcc 900
acccgagagc tgggcatcca ggtgcactct gtcaccagac agctggccca gttctgcaac 960
atcaccacct gcctggctgt gggcggttg gatgtgaagt ctcaggaagc agctcttcgg 1020
gcagcgcctg acatcctcat cgccaccca ggccggctca tcgatcacct ccacaactgc 1080
ccttccttcc acctgagcag catcgagggtg ctcatcctgg acgaggctga caggatgctg 1140
gatgagtact ttgaggagca gatgaaggag atcatccgaa tgtgttccca ccaccgccag 1200
accatgctct tctcggccac catgacagac gaggtgaaag atctggcttc tgtctccttg 1260
aagaatcctg tccggatatt tgtgaacagc aacacagatg tggctccctt cctgcggcag 1320
gagttcatcc ggatccggcc taatcgtgaa ggagaccggg aagccatcgt ggcagctttg 1380
ttgacgagga ccttactga ccatgtgatg ctgttcacgc aaaccaagaa gcaggccac 1440
cgcatgcaca tcctcctggg gctcatgggg ctgcagggtg gtgagctcca tggcaacttg 1500
tcacagacgc agcggctgga ggccctccgg cgttttaagg atgaacagat tgacatcctc 1560
gtggccactg atgtggcagc ccgtggactt gacattgagg ggggtcaaac ggtaatcaac 1620
ttcacaatgc ctaataccat caaacattat gtccaccggg tggggcgaac agcacgtgct 1680
ggcagggctg ggcgctcagt ctctctggtg ggagaagatg agcggagat gctgaaggag 1740
attgtaaaag ctgccaaggc ccctgtgaag gccaggatac tttcccaaga tgtcatcctc 1800
aaattccggg acaagattga gaaaatggag aaagatgtgt atgcagttct gcagctagag 1860
gcgaggagaa aagagatgca gcagtcagaa gccagatca atacagcaaa gcggctcctg 1920
gagaagggga aggaggcagt ggtccaagag cccgagagga gctgggtcca gaccaaagaa 1980
gagaggaaga aggagaaaat tgccaaagct ctgcaggaat ttgacttggc cttagagga 2040
aagaagaaaa ggaagaagtt tatgaaggat gccaaaaaaa agggggagat gacagcagag 2100
gaaaggtctc agtttgaaat cctcaaggcg cagatgtttg ctgaacggct agcgaagagg 2160
aatcgcagag ccaagcgggc ccgagcaatg cccgaggagg agccagtga aggtcctgcc 2220
aagaagcaaa agcaggggaa gaaatctgta ttgatgaag aactcaccaa cacaagcaag 2280
aaggccctga aacagtatcg agctagccct tcctttgaag aaaggaaaca gttgggcttg 2340
ccccaccaga gacgaggagg aaactttaaa tctaaatcca gatacaagag gaggaagtag 2400
ctgtcgtggc ctgaagaaat tcatgggggc agcccttaaa tcccttcctt gtgggaagtc 2460
atcctggctg gtctgtcttt tctccatttg tttaaaaaaa aaacaaaaac aaaaaacaac 2520
actttggtgt ggtgggtatg tacgtagcta ttttcctaag catgtctgtc aatctccctt 2580
cttgctgatt agctttcata tgactatatt aaatggaagt atttttggga aaagagaaac 2640
caaaaaaaaa aaaaaaa 2657

```

<210> 80

<211> 3246

<212> DNA

<213> NM_018206.3| Homo sapiens vacuolar protein sorting 35 (yeast) (VPS35), mRNA

```

<400> 80
ctacgcgcgg ggcgggtgct gcttgctgca ggctctgggg agtcgccatg cctacaacac    60
agcagtcctc tcaggatgag caggaaaagc tcttgatga agccatacag gctgtgaagg    120
tccagtcatt ccaaataag agatgcctgg aaaaaaaca gcttatggat gctctaaaac    180
atgcttctaa tatgcttggt gaactccgga cttctatgtt atcaccaaag agttactatg    240
aactttatat ggccatttct gatgaactgc actacttgga ggtctacctg acagatgagt    300
ttgctaaagg aaggaaagtg gcagatctct acgaacttgt acagtatgct ggaaacatta    360
tccaaggctt ttaccttttg atcacagttg gagttgtata tgtcaagtca tttcctcagt    420
ccaggaagga tattttgaaa gatttggtag aaatgtgccg tgggtgtgca catcccttga    480
ggggtctgtt tcttcgaaat taccttcttc agtgtaccag aaatatctta cctgatgaag    540
gagagccaac agatgaagaa acaactgggtg acatcagtga ttccatggat tttgtactgc    600
tcaactttgc agaaatgaac aagctctggg tgcgaatgca gcatcaggga catagccgag    660
atagagaaaa aagagaacga gaaagacaag aactgagaat tttagtggga acaaatttgg    720
tgcgccctcag tcagttggaa ggtgtaaatg tggaacgtta caaacagatt gttttgactg    780
gcatattgga gcaagttgta aactgttaggg atgctttggc tcaagaatat ctcattggagt    840
gtattattca ggttttccct gatgaatttc acctccagac tttgaatcct tttcttcggg    900
cctgtgctga gttacaccag aatgtaaatg tgaagaacat aatcattgct ttaattgata    960
gattagcttt atttgctcac cgtgaagatg gacctggaat cccagcggat attaaacttt   1020
ttgatataatt ttcacagcag gtggcttacag tgatacagtc tagacaagac atgccttcag   1080
aggatgttgt atctttacaa gtctctctga ttaatcttgc catgaaatgt taccctgata   1140
gtgtggacta tgttgataaa gttctagaaa caacagtgga gatattcaat aagctcaacc   1200
ttgaacatat tgctaccagt agtgcagttt caaaggaact caccagactt ttgaaaatac   1260
cagttgacac ttacaacaat attttaacag tcttgaaatt aaaacatttt caccactct   1320
ttgagtactt tgactacgag tccagaaaga gcatgagttg ttatgtgctt agtaatgttc   1380
tggtattata cacagaaatt gtctctcaag accaggtgga ttccataatg aatttggtat   1440
ccacgttgat tcaagatcag ccagatcaac ctgtagaaga ccctgatcca gaagattttg   1500
ctgatgagca gagccttggt ggccgcttca ttcactctgt gcgctctgag gaccctgacc   1560
agcagtactt gattttgaac acagcacgaa aacatttttg agctgggtgga aatcagcgga   1620
ttcgcttcac actgccacct ttggtatttg cagcttacca gctggctttt cgatataaag   1680
agaattctaa agtggatgac aaatgggaaa agaaatgcc gaagattttt tcatttgccc   1740

```



```

accagactat cagtgccttg atcaaagcag agctggcaga attgccctta agactttttc 1800
ttcaaggagc actagctgct ggggaaattg gttttgaaaa tcatgagaca gtcgcatatg 1860
aattcatgtc ccaggcattt tctctgtatg aagatgaaat cagcgattcc aaagcacagc 1920
tagctgccat caccttgatc attggcactt ttgaaaggat gaagtgcctc agtgaagaga 1980
atcatgaacc tctgaggact cagtgtgccc ttgctgcatc caaacttcta aagaaacctg 2040
atcagggccg agctgtgagc acctgtgcac atctcttctg gtctggcaga aacacggaca 2100
aaaatgggga ggagcttcac ggaggcaaga gggtaatgga gtgcctaaaa aaagctctaa 2160
aaatagcaaa tcagtgcatt gacccctctc tacaagtgcg gctttttata gaaattctga 2220
acagatatat ctatttttat gaaaaggaaa atgatgcggt aacaattcag gttttaaacc 2280
agcttatcca aaagattcga gaagacctcc cgaatcttga atccagtga gaaacagagc 2340
agattaacaa acattttcat aacacactgg agcatttgcg cttgcggcgg gaatcaccag 2400
aatccgaggg gccaatattt gaaggtctca tcctttaaaa aggaaatagc tcaccatact 2460
cctttccatg tacatccagt gagggtttta ttacgctagg tttcccttcc atagattgtg 2520
cctttcagaa atgctgaggt aggtttccca tttcttacct gtgatgtgtt ttaccagca 2580
cctccggaca ctcaccttca ggaccttaat aaaattattc acttggttaag tgttcaagtc 2640
tttctgatca cccaagtag catgactgat ctgcaattta aaattcctgt gatctgtaaa 2700
aaaaaaaaa aaaaaaaaaa caaaaccac aagcacttat cttggctact aatgaagctc 2760
tccttttttt tgtttgtttg ttgcttcat tgttgattgt gtattttctt cattcctggg 2820
gagtactaac caaaagcgt ctgtctcttg ttttctagtc cagtttgaga ttaatttaga 2880
agaaaggaat actgtatgtg aaattcatct tgggctttcc cctaaattgc aagataaggc 2940
catgtgtaag attttcccta aaactagaat atattaatgc atgtttgaga attttaaagc 3000
accatggtca aaaccagaag ctatatattt catatttgga ctgagccatc cattaagaac 3060
ccatgttgtc ctctggacat atttatcaat ataattgggt tttaaatagt ataaaagaaa 3120
acttgtgatc tatataattt atgtatcacc ttcatgttaa atttagcagg aaatgcatca 3180
caattatgat tttttttttt gcaccagtga aacaataaag atgctattaa caaaaaaaaa 3240
aaaaaa 3246

```

<210> 81

<211> 3182

<212> DNA

<213> NM_017583.3| Homo sapiens tripartite motif-containing 44 (TRIM44), mRNA

<400> 81

ggaggctgag cgggcggcgc gacgcggggg ccgacggggg cgccgggtgg ccgcgccgga 60

agtgccttgc	gcggcagagg	aagcgcaggg	acagagcgga	gcaggccgag	ccggcggaaa	120
gggtctttgc	tgctgcgccc	gggcaggggc	tgccgcggcc	ccaggtcccg	cttcgagacg	180
cggcgcggtc	caggcgggag	gcgactccct	aggaagggac	ccggggcggg	aggaggaagt	240
gaggccgcgc	ggaaggaagg	cggcgagccc	cggggcggcg	aggccttggc	cgcgtcacag	300
caccacatg	gcctctggag	tgggcgcggc	cttcgaggaa	ctgcctcacg	acggcacgtg	360
tgacgagtgc	gagccccgacg	aggctccggg	ggccgaggaa	gtgtgccgag	aatgcggtt	420
ctgctactgc	cgccgccatg	ccgaggcgca	caggcagaag	ttcctcagtc	accatctggc	480
cgaatacgtc	cacggctccc	aggcctggac	cccgcagct	gacggagagg	gggcggggaa	540
ggaagaagcg	gaggtcaagg	tggagcagga	gagggagata	gaaagcgagg	caggggaaga	600
gagtgagtcg	gaggaagaga	gcgagtcaga	ggaagagagc	gagacagagg	aagagagtga	660
ggatgagagc	gatgaggaga	gtgaagaaga	cagcgaggaa	gaaatggagg	atgagcaaga	720
aagcgaggcc	gaagaagaca	accaagaaga	aggggaatcc	gaggcggagg	gagaaactga	780
ggcagaaagt	gaatttgacc	cagaaataga	aatggaagca	gagagagtgg	ccaagaggaa	840
gtgtccggac	catgggcttg	atttgagtac	ctattgccag	gaagataggc	agctcatctg	900
tgtccttgt	ccagtcattg	gggctcacca	gggccaccaa	ctctccaccc	tagacgaagc	960
ctttgaagaa	ttaagaagca	aagactcagg	tggactgaag	gccgctatga	tcgaattggt	1020
ggaaaggttg	aagttcaaga	gctcagaccc	taaagtaact	cgggaccaa	tgaagatggt	1080
tatacagcag	gaatttaaga	aagttcagaa	agtgaattgct	gatgaggagc	agaaggccct	1140
tcacttagtg	gacatccaag	aggcaatggc	cacagctcat	gtgactgaga	tactggcaga	1200
catccaatcc	cacatggata	ggttgatgac	tcagatggcc	caagccaagg	aacaacttga	1260
tacctcta	gaatcagctg	agccaaaggc	agaggcgat	gaggaaggac	ccagtgggtg	1320
cagtgaagaa	gaggacacat	gaaggcttgc	taccccgagt	ggaaaatcat	cccctccct	1380
tgtgtgtatg	tgacagcgtg	tatgtaacgg	cttctgattt	ctgtgaaagc	tgctcagcaa	1440
caaacgtact	tccaccagat	gtgtccccag	atccacagca	ggcacatatc	tctccaaggg	1500
atgaccagtt	ttatgcttac	tgtgtgcttc	tcatccctg	gttgtggtag	gtcaaggaaa	1560
agagccccct	tgatccacca	ggagcaatta	agaaaaggctc	ttcaggtaat	ccctcaatgg	1620
ctgctttgaa	cttactcagg	aaagccagcc	cccataatat	tgtattacca	aacagtatcg	1680
ctttgttagg	aaggatctgg	aataatcttg	aagggagagtc	agagttttct	ccctgcctat	1740
taacaaaaac	ccaattttgt	tcataattgaa	gcatgaaata	aatgagagca	aggtagggcc	1800
aaattaactc	ttgtggacag	tccctaaaag	tccagttcta	catttgtgaa	aattgtggtg	1860
ccatgaatta	agatggatga	ctggaaaaag	gtgttgagaga	aagagttaaa	gatgaggaag	1920
agatatTTTT	agtatatgaa	gttatccagg	acttgatatt	cataattcag	tgctgtggaa	1980
atgaaaaaaaa	tgattgaaga	ggtggaacgg	aaatgacctt	agggggaaaa	aaaaggacca	2040
aagaagtctg	attaaaagtt	gaaatcagta	tttctgaatt	caaattgctt	gaatttccaa	2100

```

aatagtcagt aaaggatcta atagaaccag aattatttgg gtgaattctg caggttttat 2160
gggcttgta caacgtgaag ggctggaatg tatattacca aatgggaatt tccattgtag 2220
gtttttgcta gtccccaccc catttttagcc taatttggct taaacgcagt atggggagaa 2280
ttgttcccat tccatgtgtt ctgaattcag ctcatctccc agcatataga tatatcctcc 2340
tttaactccg accagaaccc ttcttcctgt ggcactcccc acccatagac cttcagatca 2400
tctccacac cctggatctc actctcctct tagtaacaga gacactcctg aggttggact 2460
tccttgcttt tctctacttc caaatcacia ttctttacaa ccaagctttg tgctcccag 2520
taagcagggg tgtactaggg gaatgtaaaa ctgcaaacct aaaaacctgc atcttcttga 2580
agcatcagtt ttacttacca aatggtttag agtcataaga tgacctattt ttatataaaa 2640
gttatattat agaataaaaat gttcatagc atagactgtt aagataaaaa aataggaatc 2700
ttgcaaggta attcttattt gcaagtgggt tatgtgttca ctctcctcta ctttatgggt 2760
attttggtgt tcacttacga agcatacaac tagaaccata tccaagcaga ctctgggttg 2820
ctgttaaccc agggcctaga cttctagtgc ctctgaggca gaaccaaagg agcctgcact 2880
ggggaaaatc ccttttcctg cctgcctgtc tgcctgtgac ctgtgtacgt attacaggct 2940
ttaggaccag ctgattgtta tgcttgagg atggttttga aacagaaaca atacttgttt 3000
actgtaggaa tcctatttat attatttttc agtcctgtga atgctgtgaa aagatttatt 3060
cctttgaggc caggaagctc ccaggcatat atgcttctag gttaggattg tcctgactca 3120
ctaaagatgc caggatattg gggctgaggg gagtttgagg tgttaaaaaa aaaaaaaaaa 3180
aa 3182

```

<210> 82

<211> 4930

<212> DNA

<213> NM_020182.3| Homo sapiens transmembrane, prostate androgen induced RNA (TMEPAI), transcript variant 1, mRNA

```

<400> 82
aaacccgatc tccttggact tgaatgagga ggaggaggcg gcggcggcgg cggcggcgga 60
ggcgctcggc tggggaaagc tagcggcaga ggctcagccc cggcggcagc gcgcgccccg 120
ctgccagccc attttccgga cgccaccgcg gggcactgcc gacgcccccg gggctgccga 180
ggggaggccg ggggggagca gcggagcgcg gtcccgcgca ctgagccccg cggcgccccg 240
ggaacttggc ggcgaccga gcccggcgag ccggggcgcg cctccccgcg cgcgcgccctc 300
ctgcatgcgg ggccccagct ccggggcgcg gccggagccc cccccggccg cccccgagcc 360
ccccgcgccc cgcgccgcgc cgccgcgccc tccatgcacc gcttgatggg ggtcaacagc 420
accgcccggc ccgcccggcg gcagcccaat gtctcctgca cgtgcaactg caaacgctct 480

```

ttgtttccaga gcatggagat caggagctg gatttgttc agatcatcat catcgttgtg 540
gtgatgatgg tgaatgttgt gttgatcacg tgcctgtcga gccactaca gctgtcttga 600
cgttccctca tcagccggca caggccaggg cggagagag agatgcccct gttccctcagaa 660
ggatgcccgt gcccctcggg gagcacagt tcaggcaacg gaatcccaga gccgcaggtc 720
tagccccgcg ctgcccac cgaccgctg gccgtgcgc ccttcgccca gccggagcgc 780
ttccaccgct tccagccac ctatccgtac ctgacgacg agatcgacct gccaccaccc 840
atctcgctgt cagacgggga ggagccccc cctaccagg gccctcgac cctccagctt 900
cgggacccc agcagcagt ggaactgaac cgggagtcgg tgcgcgcacc cccaacaga 960
accatcttcg acatgacct gatggatgt gccagctgg gccgcccctg ccccccagc 1020
agtaacctcg gcatcagcgc cagttgtcac gccagcggcg gccgcattga gccgcccgcg 1080
cccaccaca gccaggtcat cggccactac ccgggtcct cctccagca ccagcagagc 1140
agtgccgc cctccttgct ggaggggacc cggctccacc acacacacat cgcgccccta 1200
ggagcgcgag ccatctggag caaagagag gatatacaga aagacaccc tctctagggt 1260
cccaggggg gccggctgg gccgtcgtag gtgaaaagc agaacactcc gccgttcta 1320
gagagagagt gagaggaag cggggggcgc agcaacgcac cgtgtggccc tcccccca 1380
cctcccctgt tataatat tatcatgtat gtcgtgtcgt aatgcacaag ctaagagagc 1440
ttgcaaaaaa aagaaaaaa aaaaaaaa aaaaaccagc ttctttgtg agctgtgtct 1500
tgaagcaca aagaaaaaa ttctcacgt agtcttctt gtttctagt gagctgcgtg 1560
cgtgaatgct tatttctt tgtttatgat aattcacct aactttaag acatatctgc 1620
acaaaaacct tgtttaaga tctgcacat tatatatata aatatagaga 1680
aacgtgtatgt gccagggcag gattatttt gtattagaa aggccatata aaaaaaaag 1740
ttgttttctg aactagaaga ggaaaaaa at ggcaatttt gagtgcaca tcagaaaagt 1800
tgtattacct tghtaagaa aaaaatacaa agcagggtt tagagtatt tatataatg 1860
ttgagatttt gcactattt ttaataataa tatgtcagtg cttgcttgat ggaacctct 1920
ctgtgtcttg ttgagacct aaggagaa tatgcggaat tcagagtcgc ctgacggcag 1980
agggtgagcc cccgtggagt ctgcagagag gccctggcca ggagcggcgg gcttcccga 2040
ggggccactg tccctcaga gtgatgtct ctgcctagt acaggttat accacgttat 2100
atatctccca ccgaaggaga cacccttccc cccctgaccc agaacagcct ttaaatcaca 2160
agcaaaaatag gaaagttaa caggagagca ccgagtcca ggtagtgtt ttgccccttc 2220
caaaaaatga aataaacctg taccgaaaga attagtttt cctcttcttt ttccaactg 2280
ttgaagttccc cgtgggtgtg agcatgtgtc cctcacaag ccgcagcggc tgggtgcccg 2340
gtaccaggg acatgccaga gggtctgatg actgtctct gaggggcgtc ttgtgtgtg 2400
ttcagctggtc taaagttca ccgttgaaag ccgttgaaag caggtgcgtt aactgccccta 2460

ggaagcccca	ggtattcgca	atctgacctc	ctcctgtctg	tttcccttca	cggatcaatt	2520
ctcacttaag	aggccaataa	acaacccaac	atgaaaagg	gacaagcctg	ggtttctccc	2580
aggataggtg	aaaggggtta	aatgagtaaa	gcagttgagc	aaacaccaac	ccgagcttcg	2640
ggcgcagaat	tcttcacctt	ctcttcccc	ttccatctcc	tttccccg	gaaacaacgc	2700
ttcccttctg	gtgtgtctgt	tgatctgtgt	tttcatttac	atctctctta	gactccgctc	2760
ttgttctcca	ggttttcacc	agatagattt	ggggttggcg	ggacctgctg	gtgacgtgca	2820
ggtgaaggac	aggaaggggc	atgtgagcgt	aaatagagg	gaccagagga	gagcatgagg	2880
ggtggggcct	tgggaccac	cggggccagt	ggctggagct	tgacgtcttt	cctccccatg	2940
gggggtgggag	ggcccccagc	tggaagagca	gactcccagc	tgctacccc	tcccttccca	3000
tgggagtggc	tttccatttt	gggcagaatg	ctgactagta	gactaacata	aaagatataa	3060
aaggcaataa	ctattgtttg	tgagcaactt	ttttataact	tccaaaaaa	aaacctgagc	3120
acagttttga	agttctagcc	actcgagctc	atgcatgtga	aacgtgtgct	ttacgaagg	3180
ggcagctgac	agacgtgggc	tctgcatgcc	gccagcctag	tagaaagtct	tcgttcattg	3240
gcaacagcag	aacctgcctc	tccgtgaagt	cgtcagccta	aaatttgctt	ctctcttgaa	3300
gaggattctt	tgaagaggtc	ctgcagagaa	atcagtacag	gttatcccga	aaggtacaag	3360
gacgcacttg	taaagatgat	taaaacgtat	ctttccttta	tgtagcgcgt	ctctagtgcc	3420
ttactgaaga	agcagtgaca	ctcccgtcgc	tcggtgagga	cgttcccga	cagtgcctca	3480
ctcacctggg	actggtatcc	cctcccagg	tccaccaagg	gctcctgctt	ttcagacacc	3540
ccatcatcct	cgcgctcct	caccctgtct	ctaccaggga	ggtgcctagc	ttggtgaggt	3600
tactcctgct	cctccaacct	ttttttgcca	aggtttgtag	acgactccca	tctaggctga	3660
aaacctagaa	gtggaccttg	tgtgtgtgca	tgggtgcagc	ccaaagccag	gctgagacag	3720
tcctcatatc	ctcttgagcc	aaactgtttg	ggtctcgttg	cttcatggta	tgggtctggat	3780
ttgtgggaat	ggctttgcgt	gagaaagggg	aggagagtgg	ttgtctgcct	cagccggcct	3840
gaggacagag	cctgtccctc	tcatgacaac	tcagtgttga	agcccagtgt	cctcagcttc	3900
atgtccagtg	gatggcagaa	gttcatgggg	tagtggcctc	tcaaaggctg	ggcgcacccc	3960
aagacagcca	gcaggttgct	tctggaaacg	accagagtta	agctctcggc	ttctctgctg	4020
agggtgcacc	ctttcctcta	gatggtagtt	gtcacgttat	ctttgaaaac	tcttggaactg	4080
ctcctgagga	ggccctcttt	tccagtagga	agttagatgg	gggttctcag	aagtggctga	4140
ttggaagggg	acaagcttcg	tttcaggggt	ctgccgttcc	atcctggctc	agagaaggcc	4200
gagcgtggct	ttctctagcc	ttgtcactgt	ctccctgcct	gtcaatcacc	acctttcctc	4260
cagaggagga	aaattatctc	ccctgcaaag	cccggttcta	cacagatttc	acaaattgtg	4320
ctaagaaccg	tccgtgttct	cagaaagccc	agtgtttttg	caaagaatga	aaagggaccc	4380
catatgtagc	aaaaatcagg	gctggggggg	agccgggttc	attccctgtc	ctcattggctc	4440
gtccctatga	attgtacgtt	tcagagaaat	tttttttcct	atgtgcaaca	cgaagcttcc	4500

```

agaaccataa aatatcccggt cgataaggaa agaaaatgtc gttgttggtg tttttctgga 4560
aactgcttga aatcttgctg tactatagag ctgagaagga cacagcccggt cctcccctgc 4620
ctgcctgatt ccatggctgt tgtgctgatt ccaatgcttt cacgttggtt cctggcgtgg 4680
gaactgctct cctttgcagc cccatttccc aagctctgtt caagttaaac ttatgtaagc 4740
tttccgtggc atgcggggcg cgcacccacg tccccgctgc gtaagactct gtatttgat 4800
gccaatccac aggcctgaag aaactgcttg ttgtgtatca gtaatcatta gtggcaatga 4860
tgacattctg aaaagctgca atacttatac aataaatttt acaattcttt ggaaaaaaaa 4920
aaaaaaaaaa 4930

```

<210> 83

<211> 702

<212> DNA

<213> NM_014183.2| Homo sapiens dynein, cytoplasmic, light polypeptide 2A (DNCL2A), transcript variant 1, mRNA

```

<400> 83
cgcagaaagg cacaggactc gctaagtgtt cgctacgcgg ggctaccgga tcggtcggaa 60
atggcagagg tggaggagac actgaagcga ctgcagagcc agaagggagt gcagggaatc 120
atcgctgtga acacagaagg cattcccatc aagagcacca tggacaaccc caccaccacc 180
cagtatgcca gcctcatgca cagcttcac ctgaaggcac ggagcaccgt gcgtgacatc 240
gacccccaga acgatctcac cttccttcga attcgctcca agaaaaatga aattatgggt 300
gcaccagata aagactatct cctgattgtg attcagaatc caaccgaata agccactctc 360
ttggctccct gtgtcattcc ttaatttaat gccccccaag aatgttaatg tcaatcatgt 420
cagtggacta gcacatggca gtcgcttgga acccactcac accaatccag tgaccgtgtg 480
tgggctggcg gctcttctcc cccaccaacg gaaccctgt gtgcaccaac cttccccaga 540
gctccggagc gccctctcct cacttcaggt ttttgagca agagcttgca ggaagcccg 600
accagcttc cttctgacct tcagttcact ttgtcgccct tggagaaagc tgtttttctt 660
taactaaaaa taaccaaagt gcttaaaaaa aaaaaaaaaa aa 702

```

<210> 84

<211> 2100

<212> DNA

<213> NM_015907.2| Homo sapiens leucine aminopeptidase 3 (LAP3), mRNA

```

<400> 84
ctgccatcc gtcccgcccc ctagacgcac gtccgctcgc ccggcgcccc agccagtccg 60

```

cgcgcacgcc	gtctgcgccc	cgaaagcccc	gcccccaaggc	gcgccccgcc	accgctctcc	120
acgtgctcgc	tggagggcgg	tgcgaggggc	cgagccgaca	agatgttctt	gctgcctctt	180
ccggctgcgg	ggcgagtagt	cgtccgacgt	ctggccgtga	gacgtttcgg	gagccggagt	240
ctctccaccg	cagacatgac	gaagggcctt	gttttaggaa	tctattccaa	agaaaaagaa	300
gatgatgtgc	cacagttcac	aagtgcagga	gagaattttg	ataaattggt	agctggaaag	360
ctgagagaga	ctttgaacat	atctggacca	cctctgaagg	cagggaagac	tcgaaccttt	420
tatggtctgc	atcaggactt	ccccagcgtg	gtgctagttg	gcctcggcaa	aaaggcagct	480
ggaatcgacg	aacaggaaaa	ctggcatgaa	ggcaaagaaa	acatcagagc	tgctgttgca	540
gcggggtgca	ggcagattca	agacctggag	ctctcgtctg	tggaggtgga	tccctgtgga	600
gacgctcagg	ctgctgcgga	gggagcgggtg	cttggtctct	atgaatacga	tgacctaaag	660
caaaaaaaga	agatggctgt	gtcggcaaag	ctctatggaa	gtggggatca	ggaggcctgg	720
cagaaaggag	tcctgtttgc	ttctgggcag	aacttggcac	gccaattgat	ggagacgcca	780
gccaatgaga	tgacgccaac	cagatttgct	gaaattattg	agaagaatct	caaaagtgtc	840
agtagtaaaa	ccgaggtcca	tatcagaccc	aagtcttgga	ttgaggaaca	ggcaatggga	900
tcattcctca	gtgtggccaa	aggatctgac	gagccccag	tcttcttgga	aattcactac	960
aaaggcagcc	ccaatgcaaa	cgaaccaccc	ctggtgtttg	ttgggaaagg	aattaccttt	1020
gacagtgggtg	gtatctccat	caaggcttct	gcaaatatgg	acctcatgag	ggctgacatg	1080
ggaggagctg	caactatatg	ctcagccatc	gtgtctgctg	caaagcttaa	tttgccatt	1140
aatattatag	gtctggcccc	tctttgtgaa	aatatgcccc	gcggcaaggc	caacaagccg	1200
ggggatgttg	ttagagccaa	aaacgggaag	accatccagg	ttgataacac	tgatgctgag	1260
gggaggctca	tactggctga	tgcgctctgt	tacgcacaca	cgtttaaccc	gaaggctatc	1320
ctcaatgccg	ccaccttaac	aggtgccatg	gatgtagctt	tgggatcagg	tgccactggg	1380
gtctttacca	attcatcctg	gctctggaac	aaactcttcg	aggccagcat	tgaaacaggg	1440
gaccgtgtct	ggaggatgcc	tctcttcgaa	cattatacaa	gacaggttgt	agattgccag	1500
cttgctgatg	ttaacaacat	tggaaaatac	agatctgcag	gagcatgtac	agctgcagca	1560
ttcctgaaag	aattcgtaac	tcatacctaag	tgggcacatt	tagacatagc	aggcgtgatg	1620
accaacaaag	atgaagttcc	ctatctacgg	aaaggcatga	ctgggaggcc	cacaaggact	1680
ctcattgagt	tcttacttcg	tttcagtcaa	gacaatgctt	agttcagata	ctcaaaaatg	1740
tcttcactct	gtcttaaatt	ggacagttga	acttaaaagg	tttttgaata	aatggatgaa	1800
aatcttttaa	cggagacaaa	ggatgggtatt	taaaaatgta	gaacacaatg	aaatttgtat	1860
gccttgatgtt	ttttttcatt	tcacacaaag	atttataaag	gtaaagttaa	tatcttactt	1920
gataaggatt	tttaagatac	tctataaatg	attaaaattt	ttagaacttc	ctaatactt	1980
ttcagagtat	atgtttttca	ttgagaagca	aaattgtaac	tcagatttgt	gatgctagga	2040

acatgagcaa actgaaaatt actatgcact tgtcagaaac aataaatgca acttggttg 2100

<210> 85

<211> 1510

<212> DNA

<213> NM_018478.1| Homo sapiens chromosome 20 open reading frame 35 (C20orf35), mRNA

<400> 85
cgagtgtggc caaggggtgcc ggaggcaggg ttcgggtgcg tagtcgttgc gtgggctgctg 60
cccaaaaggc gcagagcatc aagtgtgctg gggcagaacc ggcgcgggag cccgccgcgg 120
gtctgctgag ggcgggggcg cagcaagtgc atccgagcga gcggagacta gcgcaccggc 180
gtcgggtggcg aggggtggtgc agaggagtcc ggctgggagc agggaggaag gatgggtgctg 240
ggtaactttt tgaccgcctt ggaagtacca gtagccgcgc tcgcaggggc tgcctccgac 300
cgccgggagc gctgcgagcg agtgagcccc ccaccgcccc tccccactt ccgcctcggc 360
acgaggcctc ttcctcgttc ccggctccca gggcccgtgt ccaggccgga gccagggggc 420
ccactgttgg gatgctggct gcagtggggc gcccgaagcc cagggtcccct ctgtcttctc 480
tttcgacttt gcagctgtac ttgttttgct cctctacccg caggagctga catggaccca 540
aatcctcggg ccgccctgga gcgccagcag ctccgccttc gggagcggca aaaattcttc 600
gaggacattt tacagccaga gacagagttt gtctttcctc tgtcccatct gcatctcgag 660
tcgcagagac ccccatagg tagtatctca tccatggaag tgaatgtgga cacactggag 720
caagtagaac ttattgacct tggggagccg gatgcagcag atgtgttctt gccttgcgaa 780
gatcctccac caacccccca gtcgtctggg gtggacaacc atttggagga gctgagcctg 840
ccggtggcta catcagacag gaccacatct aggacctcct cctcctcctc ctccgactcc 900
tccaccaacc tgcatagccc aaatccaagt gatgatggag cagatacgcc cttggcacag 960
tcggatgaag aggaggaaag ggggtgatgga ggggcagagc ctggagcctg cagctagcag 1020
tgggcccctg cctacagact gaccacgctg gctattctcc acatgagacc acaggcccag 1080
ccagagcctg tcgggagaag accagactct ttacttgag taggcaccag aggtgggaag 1140
gatggtggga ttgtgtacct ttctaagaat taaccctctc ctgctttact gctaattttt 1200
tcctgctgca accctcccac cagtttttg cttactcctg agatatgatt tgcaaatgag 1260
gagagagaag atgaggttgg acaagatgcc actgcttttc ttagcactct tccctcccct 1320
aaaccatccc gtagtcttct aatacagtct ctcagacaag tgtctctaga tggatgtgaa 1380
ctccttaact catcaagtaa ggtgggtactc aagccatgct gcctccttac atcctttttg 1440
gaacagagca cgggtataaat aataaactaa taataatatg ccaacaaaaa aaaaaaaaaa 1500
aaaaaaaaaa 1510

<210> 86

<211> 3105

<212> DNA

<213> NM_030674.2| Homo sapiens solute carrier family 38, member 1 (SLC38A1), mRNA

```

<400> 86
gcacgagggg ctggggcggc cacgcactcc gccagaaggt cgccaggagc ctccgccctt      60
caccttcctc ggaaatccgc caggccacgc aagctccctg cccaaccctt actgacgggg      120
gccacatttt cccggcctcc gcagccagac cttgacacaa aggacatcaa actgccgagg      180
gtaaaaaccc cggaagggcg gacacctcca catcgccctt tgccaccttt ccctttatct      240
ccggagatat ttattgagtg tctactgtgt gccaggcact atatctatgt gcatagaaaa      300
accctggaag gccatacaac aatatatata gagtgatcgt ctctgcttgc tgagctaaca      360
ggggtgtcaa gcttccatct tggtatctac ttctaaatac actcagaaca ggagaaatct      420
ggactaatct tcaaactaca gacactttct aatcatgatg catttcaaaa gtggactcga      480
attaactgag ttgcaaaaca tgacagtgcc cgaggatgat aacattagca atgactccaa      540
tgatttcacc gaagtagaaa atggtcagat aaatagcaag tttatttctg atcgtgaaag      600
tagaagaagt ctcaaaaca gccatttgga aaaaaagaag tgtgatgagt atattccagg      660
tacaacctcc ttaggcatgt ctgtttttta cctaagcaac gccattatgg gcagtgggat      720
tttgggactc gcctttgccc tggcaaacac tggaaatccta ctttttctgg tacttttgac      780
ttcagtgaca ttgctgtcta tatattcaat aaacctccta ttgatctgtt caaaagaaac      840
aggctgcatg gtgtatgaaa agctggggga acaagtcttt ggcaccacag ggaagttcgt      900
aatctttgga gccacctctc tacagaacac tggagcaatg ctgagctacc tcttcatcgt      960
aaaaaatgaa ctaccctctg ccataaagtt tctaattggga aaggaagaga cattttcagc     1020
ctggtacgtg gatggccgcg ttctgggtgg gatagttacc tttggcataa ttctccctct     1080
gtgtctcttg aagaacttag ggtatcttgg ctatactagt ggattttcct tgagctgtat     1140
ggtttttttc ctaattgtgg ttattttaca gaaatttcaa attccctgca ttgttccaga     1200
gctaaattca acaataagtg ctaattcaac aaatgctgac acgtgtacgc caaaatatgt     1260
taccttcaat tcaaagaccg tgtatgcttt acccaccatt gcatttgcat ttgtttgcca     1320
cccgctcagtc ctgccaatct acagtgagct taaagaccga tcacagaaaa aaatgcagat     1380
ggtttcaaac atctcctttt tcgccatggt tgttatgtac ttcttgactg ccatttttgg     1440
ctacttgaca ttctatgaca acgtgcagtc cgacctcctt cacaaatatc agagtaaaga     1500
tgacattctc atcctgacag tgcggctggc tgtcattggt gctgtgatcc tcacagtgcc     1560
gggtgttattt ttcacggatc gttcatcttt atttgaactg gctaagaaaa caaagtttaa     1620

```

```

tttatgtcgt cataccgtgg ttacctgcat actcttggtt gttatcaact tgttggtgat 1680
cttcataccc tccatgaagg atatttttgg agtcgtagga gttacatctg ctaacatgct 1740
tattttcatt cttccttcat ctctttattt aaaaatcaca accaggatgg agataaagga 1800
actcaaagaa tttgggctgc ctttttcttg ggcctggggg tgttgttctc cttggtcagc 1860
attcccttgg tcatctatga ctgggcctgc tcatcgagta atggtgaagg ccactgaaac 1920
ccgccgagaa aaagaaacat ccctgttgtc tgctcagtc agtccccaca catcagcaat 1980
ctctcaccac ttcttttgca agtttacaga agcaaacaga aatgtacagg atacttaaaa 2040
tggaataact ttttggttgc aaaacagaga catggttcta taatgcttca tgtccctcca 2100
agatttgaga tcaatttagg gattgtgaaa ttttttttcc aaatttcata caatcatatt 2160
tcccagtact tttcacaatc attttttacc catctaactc tatgttttgt ggcttcccgg 2220
tctcttagaa ctttgaaaac atgatataca ataatgttta tttattatac atccagattc 2280
tgaaataatt ttcctactga tgttcagctc acactatctg taccttttta gaagagaaaa 2340
gaatcttgaa ttgtatatat ttattttgct ttacagaaaa aaatgggttc gttaaataatt 2400
tgcctatttt gggtaacata gcacatggag ataatcatct gaaagttata gggcactgcc 2460
actgctgaat cagagcatgc ccaatatttg aggtggctct gatttcctgg cagctgaact 2520
cgggtagtcc agtggcctag ctggtaccac atctattccc atccagagac attctctggc 2580
aagtgttctc agctgaaaag tggttgggga tgattcttac cttggtaatt aaatgaagct 2640
acacatttgg gtaatctagc aaatgaagta ttttttcctt cttggcaact tgtgtcagag 2700
ttactctggt ctgagtcaac tttcgctggg gaaaacctat ggaacctact gcaaaaagat 2760
tgtccaaaat gcctaagaaa atactcctct gatgcattta gccttcaacc ctacctgtct 2820
tgctgaaggg agaaaaatgt tttagtacat tataggccca gcagctttta ttcattgtcca 2880
ccagctagtt gcacagagaa tcatgtgtac ctaactaagg atgatctagg ataagtaact 2940
cctgttttat attgagtatt ttagggaagt ctttaaaga cttgttttat atctataaat 3000
ctagggtatt acaaatacaa gaattttgta ctttaaataa gcctcatttc tatttcttct 3060
tcattaattc tccatctagt cttgtgaaaa aaaaaaaaaa aaaaa 3105

```

<210> 87

<211> 2711

<212> DNA

<213> NM_016028.4| Homo sapiens suppressor of variegation 4-20 homolog 1 (Drosophila) (SUV420H1), transcript variant 2, mRNA

<400> 87

```

ggtgctgcgg cccgcgccgc catcttgat tttactctcc attttctctt ggaattattt 60
ttggtgatta attttctggg ggggactggg acgcggggcc cggcggcgcg gccccgcac 120

```

gcagcggccg	ggcagcgggg	cctgggacgc	gccccgagga	ggagcggggc	ggcgcaggcg	180
gagagaacat	tgaaggtatt	ctctaagcta	tttgaagaga	gtgactaaat	gcacctgggt	240
caggctgtct	gtgggtatga	agtgggttggg	agaatccaag	aacatgggtg	tgaatggcag	300
gagaaatgga	ggcaagttgt	ctaataacca	tcagcagaat	caatcaaaat	tacagcacac	360
ggggaaggac	accctgaagg	ctggcaaaaa	tgcagtcgag	aggaggctga	acagatgtaa	420
tggttaactcg	ggatttgaag	gacagagtcg	ctatgtacca	tcctctggaa	tgtccgccaa	480
ggaactctgt	gaaaatgatg	acctagcaac	cagtttggtt	cttgatccct	atttaggttt	540
tcaaacacac	aaaatgaata	ctagcgcctt	tccttcgagg	agctcaaggc	atTTTTcaaa	600
atctgacagt	ttttctcaca	acaaccctgt	gagatttagg	cctattaaag	gaaggcagga	660
agaactaaag	gaagtaattg	aacgttttaa	gaaagatgaa	cacttgagga	aagccttcaa	720
atgtttgact	tcaggcgaat	gggcacggca	ctattttctc	aacaagaata	aaatgcagga	780
gaaattattc	aaagaacatg	tatttattta	tttgcgaaatg	tttgcaactg	acagtggatt	840
tgaaatattg	ccatgtaata	gatactcatc	agaacaaaat	ggagccaaaa	tagttgcaac	900
aaaagagtgg	aaacgaaatg	acaaaataga	attactgggtg	ggttgatttg	ccgaactttc	960
agaaattgag	gagaacatgc	tacttagaca	tggagaaaac	gacttcagtg	tcatgtactc	1020
cacaaggaaa	aactgtgctc	aactctggct	gggtcctgct	gcgtttataa	accatgattg	1080
cagacctaata	tgttaagtttg	tgtcaactgg	tcgagataca	gcatgtgtga	aggctctaag	1140
agacattgaa	cctgggagaag	aaatttcttg	ttattatgga	gatgggttct	ttggagaaaa	1200
taatgagttc	tgcgagtgtt	acacttgcca	aagacggggc	actggtgctt	ttaaatccag	1260
agtgggactg	cctgcgcttg	ctcctgttat	caatagcaaa	tatggactca	gagaaacaga	1320
taaacgttta	aataggctta	aaaagttagg	tgacagcagc	aaaaattcag	acagtcaatc	1380
tgtcagctct	aacactgatg	cagataccac	tcaggaaaaa	aacaatgcaa	gtaagtaagg	1440
gagatttgat	aagcatatct	tttaaaagta	ttttcacaca	atttgcttta	taaagtgtgc	1500
ttcagtagtt	ttaaactttt	aaatactcag	agagactggg	acttgtaggc	tttggtgca	1560
cttcaaggct	ctagacgtga	tttgagtga	ggcacagtct	gtatcccatc	tctaacttca	1620
gtaccgtcct	ctagactatt	tttcttgaat	accttggtaa	ctggatatga	gttcttcatc	1680
atatgttcca	aggtcatcat	atgtttttaa	cattttcaag	gtgttagaga	ctgtgatgat	1740
gtcgctaagt	cctgcaagaa	gacaaaagga	ctgagtagaa	ttaaattaga	ctctatacat	1800
tccagtgcct	agccagtttg	ttagaaaaga	tgatggactt	ggggaattca	tagcttcttg	1860
ccttaaggct	tccacctttt	cattgcttgc	tgaccttttt	caaaacgaac	tgactcagtt	1920
cagcagacca	ccagtaccag	actcagaatt	gtgatagagg	agcattttga	acagtgccgt	1980
attgtgacat	gctgtatttg	ctactccaga	aagtaggagt	aaagatggaa	aggagaaaga	2040
agcaacctct	gagattccag	tggtgtgtgg	gggcaagatc	tgatggaaac	tgaaaaagag	2100
aacgaagact	aaacaaagag	aaaggaaaga	gaagaaaccc	taaatgggca	aaggaaagca	2160

```

catcctgttt gcgagcctt gaaatattgg aaccatttct aattgctcct gtttttctgg 2220
gtaacaccag ttttctgtag ttgccactaa agcagtagac tcttgagtct cacttgcttc 2280
tgagagagac agaagttaga aagttttgac ttggcgattc cgaaagtatg cctttgttgg 2340
cacttaaagt tccagtgaga cttcttggca ccttagagcc ctctgagata ctgattattt 2400
taggttcttc tccctacttt cagatgtttt cagcccaaca ctgggtgctc tcttccacta 2460
cagagaatcc tgaagaaaag ggaagggtgt tcccatgatg gtgaatgtca ctgccatgaa 2520
ttcctgaatc tacctgctgc tgggagtcag agtccaagca taaccctgtg agcataaaaag 2580
cagcgctgta gccctattcc agtctttttc gttaatgtcc agagtgaaca acaagagtta 2640
gtcaatcatt aactgttgac tgttgattct cataataaat gcagcataac gacaaaaaaa 2700
aaaaaaaaa a 2711

```

<210> 88

<211> 2977

<212> DNA

<213> NM_022105.2| Homo sapiens death associated transcription factor 1 (DATF1), transcript variant 1, mRNA

```

<400> 88
gggagcggga gggcagggcg accggaggcc gcccctcagc acctctcgcg acagcaagag 60
agcgcgagag cgcgagccga tgaccaatga agcgcccccg cgagggggcg gggcggacgg 120
cctcccggaa gcgcggaacc tcagcttccg tacttgcgca gaactcccct cgcggcgacc 180
acgcactacg ggttggcgcc agagtcaaaa ggcgtcggcc ctctggcaag atggctgctg 240
cggaggcggt ggagcgcgga aatctggaac cgggatggcg acgtctacac tgagtcggag 300
gcgaaggagc ttactccacg ggaacagcct ctagataatc tgagttgttg aaaatacgaa 360
gcctgttact cgtgaacagt ggctgacaac agtgttgttg tgagcctggc tgtctgcttg 420
gacccagagg tttcgtctgc cagggttttt ggttgatatt aggatttcag ggaaaagtgt 480
ccaagctttc agtgttggag caggtatgga cgacaaaggc gacccgagca atgaggaggc 540
acctaaggcc atcaaaccga ccagcaaaga gttcaggaaa acatgggggt ttcgaaggac 600
cactatcgcc aagcgagagg gcgcagggga cgcgagggtg gacccactgg agccgccacc 660
cccacagcag cagctgggga tgtccctgcg gcgcagtggg aggcagccca agcgactga 720
gcgcgtggag cagttcctga ccattgcgcg gcgccgcggc aggaggagca tgcctgtctc 780
cctggaggat tctggtgagc ccacgtcctg ccccgccaca gacgcccaga cagcctccga 840
gggcagcgtg gaaagcgctt ctgagaccag aagcggcccc cagtctgctt ccacagctgt 900
gaaggaacga ccagcctctt ctgaaaagggt gaaaggaggg gatgaccacg atgacacctc 960
cgatagtgac agcgatggcc tgaccttgaa agagcttcag aatcgcttc gcaggaagcg 1020

```

ggaacaggag	cccactgaga	ggcccctgaa	agggatccag	agtcgcctgc	ggaagaagcg	1080
ccgggaggag	ggtcccgccg	agactgtggg	ctccgaggcc	agtgacactg	tggagggcgt	1140
cctgcccagt	aagcaggagc	ccgagaacga	tcaggggggtt	gtgtcccagg	ctgggaaaga	1200
tgacagagag	agtaagttag	agggaaaggc	ggctcaggac	atcaaagatg	aggagcctgg	1260
agacttgggc	cgaccgaagc	ctgaatgtga	gggttacgac	cccaacgccc	tgtattgcat	1320
ttgccgccag	cctcacaaca	acaggtttat	gatttgctgt	gaccgctgtg	aagaatgggt	1380
tcatggcgat	tgtgtgggca	tttctgaggc	tcgagggagg	cttttggaag	ggaatgggga	1440
agactatata	tgcccaaact	gcaccattct	gcaagtgcag	gatgagactc	attcagaaac	1500
ggcagatcag	caggaagcta	aatggagacc	tggagatgct	gatggcaccg	attgtacaag	1560
tataggaaca	atagagcaga	agtctagcga	agaccaaggg	ataaagggtg	gaattgagaa	1620
agctgcaaat	ccaagtggca	agaagaaact	caagatcttc	cagcctgtga	tagagggcgc	1680
tggtgcctca	aaatgtattg	gccccgggtg	ctgtcacgtg	gcgagcccg	actcgggtga	1740
ctgcagtaat	gactgtatcc	tcaaacacgc	cgcagcgaca	atgaagtttc	taagctcagg	1800
taaagaacag	aagccaaagc	ctaaagaaaa	gatgaagatg	aagccagaga	agcccagtct	1860
tccgaaatgc	ggtgctcagg	caggtattta	aatctcttct	gtgcacaaga	gaccagctcc	1920
agaaaaaaaa	gagaccacag	tgaagaaggc	agtggtggtc	cctgcgcgga	gtgaagcact	1980
cgggaaggaa	gcagcttgtg	agagcagcac	gccgtcgtgg	gcgagcgatc	acaattacaa	2040
tgcagtaaag	ccagaaaaga	ctgctgctcc	ctcgccgtca	ctgttggtata	aatgtatgta	2100
tcacctaggg	gttggcctcc	tggacccctc	ccgttctttc	tggatagcca	tcccctgggc	2160
ctgtccagga	ctgggagttg	cagctttgtg	ttaagctgat	cacagacacc	ggctgcacca	2220
tcagcgggaa	gcagagccca	tgtccaggat	gcctcctgct	gccctgtgtc	catccctagt	2280
ctgtcaggac	ttcctgtcac	tgtttttcaa	agctgtaaac	ctcactgggtg	aacgttcacc	2340
ttaatgattg	attctttaat	ctctgttttc	actctcaggc	tctggtaagt	attcgtattc	2400
tcttcatccc	agtctgattg	catagccaca	ctgcccggca	cgccacatcc	accctgtctt	2460
gcacatgagt	tgttctgaca	acagcgctgt	atacgcttca	gtttttccac	attgtccacg	2520
gccagcacat	gaaagcatca	cttctttttt	atgttggtgg	aatctttgca	agttagtgtt	2580
gcatctgatt	ttcaggtgta	cattttattt	tgactgggca	gataggggat	tttttttttt	2640
ccatgtccga	ttcacacgct	acacacccac	atgaacacat	tcgaacttcg	aaggccacac	2700
actcctgctt	cataggcccc	acggtaagtg	agttcacacc	tagaacactg	tcctgaccgc	2760
aggacgcgtg	ccttggactt	ggtattctac	atgtgactgg	ctttcttgcc	ctcgtctctt	2820
gaatgttttag	actcttaaga	tcatatcctg	ccccaaattt	caaattaatg	aaatgaagat	2880
atttcaaaca	gatctttgaa	acctcagatt	ctgtgggtgca	attttaatgt	tttcttggtt	2940
ctcagttttc	tgctataaaa	ctattttcaa	ttcagtc			2977

<210> 89

<211> 1047

<212> DNA

<213> NM_018487.2| Homo sapiens hepatocellular carcinoma-associated antigen 112 (HCA112), mRNA

```

<400> 89
cccacttctc cagccagcgc cccagccctc ccgccgcccg ctgcaggtc ccgaggagcg      60
cagactgtgt ccctgacaat gggaacagcc gacagtgatg agatggcccc ggaggcccca      120
cagcacaccc acatcgatgt gcacatccac caggagtctg ccctggccaa gtcctgctc      180
acctgctgct ctgcgtgctg gccccgggccc acccaggcca ggggcagcag ccggctgctg      240
gtggcctcgt ggggtgatgca gatcgtgctg gggatcttga gtgcagtcct aggaggattt      300
ttctacatcc gcgactacac cctcctcgtc acctcgggag ctgccatctg gacaggggct      360
gtggctgtgc tggctggagc tgctgccttc atttacgaga aacggggtgg tacatactgg      420
gccctgctga ggactctgct aacgctggca gctttctcca cagccatcgc tgccctcaaa      480
ctttggaatg aagatttccg atatggctac tcttattaca acagtgcctg ccgcatctcc      540
agctcgagtg actggaacac tccagcccc actcagagtc cagaagaagt cagaaggcta      600
cacctatgta cctccttcat ggacatgctg aaggccttgt tcagaaccct tcaggccatg      660
ctcttggggtg tctggattct gctgcttctg gcatctctga cccctctgtg gctgtactgc      720
tggagaatgt tcccaaccaa agggaaaaga gaccagaagg aaatgttgga agtgagtgga      780
atctagccat gcctctcctg attattagtg cctggtgctt ctgcaccggg cgtccctgca      840
tctgactgct ggaagaagaa ccagactgag gaaaagaggc tcttcaacag ccccagttat      900
cctggcccca tgaccgtggc cacagccctg ctccagcagc acttgcccat tccttacacc      960
ccttccccat cctgctccgc ttcattgtccc ctctgagta gtcattgat aataaactct     1020
catgttattg ttcccaggaa aaaaaaa                                1047

```

<210> 90

<211> 2785

<212> DNA

<213> NM_014454.1| Homo sapiens sestrin 1 (SESN1), mRNA

```

<400> 90
gatccgccac catggctgaa ggagagaatg aagtgagatg ggatggactc tgcagcagag      60
attcaactac tagggagaca gcattggaaa acattaggca aaccattttg aggaaaaccg      120
agtatcttcg ttcggtgaaa gaaacacctc atcgtccatc agacgggctt tcaaataaccg      180

```

agtcttcgga	tgggttgaat	aagctacttg	ctcatctgct	tatgctttct	aagagggtgc	240
ccttcaaaga	tgtgagagag	aaaagtgagt	ttattctgaa	gagcatccag	gaacttggca	300
ttagaattcc	tcgaccacta	ggacagggac	caagcagatt	catcccagaa	aaggagatcc	360
tccaagtggg	gagtgaagac	gcacagatgc	atgctttatt	tgcagattct	tttgctgctt	420
tggggccgttt	ggataacatt	acgttagtga	tggttttcca	cccacaatat	ttagaaagtt	480
tcttaaaaac	tcagcactat	ctactgcaaa	tggatggggc	gttaccctta	cattatcgtc	540
actacattgg	aataatggct	gcggaagac	atcagtgtc	ctacttagtg	aacctgcatg	600
taaatgattt	ccttcatgtt	ggtggggacc	ccaagtggct	caatggttta	gagaatgctc	660
ctcaaaaact	acagaattta	ggagaactta	acaaagtgtt	agcccataga	ccttggctta	720
ttaccaaaaga	acacattgag	ggacttttaa	aagctgaaga	gcacagctgg	tcccttgcgg	780
aattgggtaca	tgcagtagtt	ttactcacac	actatcattc	tcttgctca	ttcacattcg	840
gctgtggaat	cagtccagaa	attcattgtg	atggtggcca	cacattcaga	cctccttctg	900
ttagcaacta	ctgcatctgt	gacattacaa	atggcaatca	cagtgtggat	gagatgccgg	960
tcaactcagc	agaaaatgtt	tctgtaagt	attctttctt	tgaggttgaa	gccctcatgg	1020
aaaagatgag	gcagttacag	gaatgtcgag	atgaagaaga	ggcaagtcag	gaagagatgg	1080
cttcacgttt	tgaatatagaa	aaaagagaga	gtatgtttgt	cttctcttca	gatgatgaag	1140
aagttacacc	agcaagagct	gtatctcgtc	atgttgagga	tactagttat	ggctataaag	1200
atcttcttag	acatgggatg	catgttccaa	catttcgtgt	ccaggactat	tgctgggaag	1260
atcatggtta	ttctttggta	aatcgccttt	atccagatgt	gggacagttg	attgatgaaa	1320
aatttcacat	tgcttacaat	cttacttata	atacaatggc	aatgcacaaa	gatgttgata	1380
cctcaatgct	tagacgggca	atgttgaact	atattcactg	catgtttgga	ataagatatg	1440
atgattatga	ctatggtgaa	attaaccagc	tattggatcg	tagctttaaa	gtttatatca	1500
aaactgttgt	ttgcactcct	gaaaagggtta	ccaaaagaat	gtatgatagc	ttctggaggc	1560
agttcaagca	ctctgagaag	gttcatgtta	atctgcttct	tatagaagct	aggatgcaag	1620
cagaactcct	ttatgctctg	agagccatta	cccgtatat	gacctgatgc	ctttccttca	1680
ttaaagatga	ttctggaatg	atcagcagat	atagtctaca	agggggaagg	tactaagccc	1740
caggaccaat	ggtagacaaa	ataattcaga	aatccattgt	gccatgattc	cttttagtttc	1800
tgctattttt	ctgtggaaaa	ccactgctgg	cacaagcagt	gactgtttgg	cagcttcaag	1860
tttagagctg	tgaagacagg	ctgccattca	cagtattttg	ctttttgaca	gtacaagatg	1920
ctgtgtaact	gttttaatac	agcaaatagt	aactctccaa	atcctgttgc	ttttatgtta	1980
aataagataa	caagaattgg	agcatgcaaa	gaatgggact	tggataatga	cttaagcttt	2040
atatgtaaaag	aatttttagaa	gatcttggtg	ctgctattcc	tgctggagga	atgaatagat	2100
ggctgtttca	gttaagctat	tagtaataaa	agtgaacatt	gctactatct	gagcctacat	2160
acataacttg	tgtgatttca	aattaaactt	gcattatgtg	ttaattttct	tgcatctaaa	2220

```

aaagcataga attcctactc acacagctca gcaacaacca ttttgatggt aacagttaat 2280
ttcttttcatt agtttttttaa attcaggggt ctggatatta aattaaaatg gcattcttaa 2340
agatttttctt caaaaagcaa tcctaaatga aagtgtgtaa attataagaa gctggcgatc 2400
ttttgatatg ctgtttcaca ggatcctgac actggagggc agctgtcttg tgcattactt 2460
gtgttcccag caccaaagtt gtgggacatg ttgctgtaga ctgctgcgca gtcctgggtg 2520
cattcagtct ctctgcctct gcctgcctcc tggccccac tttaaaggct gtgcagctcc 2580
ttaaataata aagctggaaa atatttttag tcgggttatc aaatttgatt tacaaaaacg 2640
ctaactttgt ttgaaatgca aacagggtttg aaaatatgta ttaagtactt tgtattctgg 2700
aagcgtgaat tgcttttgaa gtctgtcagt attactggta tttttaaata aagaagaatt 2760
tttctccaaa aaaaaaaaaa aaaaaa 2785

```

<210> 91

<211> 3802

<212> DNA

<213> NM_017763.1| Homo sapiens hypothetical protein FLJ20315 (FLJ20315), mRNA

```

<400> 91
aaaaaaaaaa aacttttagag aaaggaaggg ccaaaactac gacttggctt tctgaaacgg 60
aagcataaat gttcttttcc tccatttgtc tggatctgag aacctgcatt tggatttagc 120
tagtggaagc agtatgtatg gttgaagtgc attgctgcag ctggtagcat gagtggtggc 180
caccagctgc agctggctgc cctctggccc tggctgctga tggctaccct gcaggcaggc 240
tttggacgca caggactggt actggcagca gcggtggagt ctgaaagatc agcagaacag 300
aaagctgtta tcagagtgat ccccttgaaa atggaccca caggaaaact gaatctcact 360
ttggaagggtg tgtttgctgg tgttgctgaa ataactccag cagaaggaaa attaatgcag 420
tcccacccac tgtacctgtg caatgccagt gatgacgaca atctggagcc tggattcatc 480
agcatcgtca agctggagag tcctcgacgg gcccccgcc cctgcctgtc actggctagc 540
aaggctcgga tggcgggtga gcgaggagcc agtgctgtcc tctttgacat cactgaggat 600
cgagctgctg ctgagcagct gcagcagccg ctggggctga cctggccagt ggtgttgatc 660
tggggtaatg acgctgagaa gctgatggag tttgtgtaca agaaccaaaa ggcccatgtg 720
aggattgagc tgaaggagcc cccggcctgg ccagattatg atgtgtggat cctaatgaca 780
gtggtgggca ccatctttgt gatcatcctg gcttcggtgc tgcgcatccg gtgccgcccc 840
cgccacagca ggccggatcc gcttcagcag agaacagcct gggccatcag ccagctggcc 900
accaggaggt accaggccag ctgcaggcag gccgggggtg agtggccaga ctcagggagc 960
agctgcagct cagcccctgt gtgtgccatc tgtctggagg agttctctga ggggcaggag 1020

```


ctacgggtca	tttcctgcct	ccatgagttc	catcgtaact	gtgtggaccc	ctggttacat	1080
cagcatcgga	cttgccccct	ctgcgtgttc	aacatcacag	aggagattc	attttcccag	1140
tccctgggac	cctctcgatc	ttaccaagaa	ccaggtcgaa	gactccacct	cattcgccag	1200
catccccggc	atgcccacta	ccacctccct	gctgcctacc	tgttggggcc	ttcccggagt	1260
gcagtggctc	ggcccccacg	acctgggtccc	ttcctgccat	cccaggagcc	aggcatgggc	1320
cctcggcatc	accgcttccc	cagagctgca	catccccggg	ctccaggaga	gcagcagcgc	1380
ctggcaggag	cccagcacc	ctatgcacaa	ggctggggaa	tgagccacct	ccaatccacc	1440
tcacagcacc	ctgctgcttg	cccagtgtcc	ctacgccggg	ccaggccccc	tgacagcagt	1500
ggatctggag	aaagctattg	cacagaacgc	agtgggtacc	tggcagatgg	gccagccagt	1560
gactccagct	cagggccctg	tcattggctct	tccagtgtac	ctgtgggtcaa	ctgcacggac	1620
atcagcctac	aggggggtcca	tggcagcagt	tctactttct	gcagctccct	aagcagtgtg	1680
tttgaccccc	tagtgtactg	cagccctaaa	ggggatcccc	agcgagtggg	catgcagcct	1740
agtgtgacct	ctcggcctcg	ttccttggac	tcgggtgggtg	ccacagggga	aaccagggtt	1800
tccagccatg	tccactacca	ccgccaccgg	caccaccact	acaaaaagcg	gttccagtgg	1860
catggcagga	agcctggccc	agaaaccgga	gtccccaggt	ccaggcctcc	tattcctcgg	1920
acacagcccc	agccagagcc	accttctcct	gatcagcaag	tcaccggatc	caactcagca	1980
gcccccttcg	ggcggctctc	taaccacacg	tgccccaggg	ccctccctga	gccagcccct	2040
ggcccagttg	acgcctccag	catctgcccc	agtaccagca	gtctgttcaa	cttgcaaaaa	2100
tccagcctct	ctgcccagca	cccacagagg	aaaaggcggg	ggggtccctc	cgagcccacc	2160
cctggctctc	ggccccagga	tgcaactgtg	caccagcgtt	gccagatttt	tccccattac	2220
acccccagtg	tgccatatac	ttgggtcccca	gaggcacacc	ccttgatctg	tggacctcca	2280
ggcctggaca	agaggctgct	accagaaaacc	ccaggcccct	gttactcaaa	ttcacagcca	2340
gtgtgggtgt	gcctgactcc	tcgccagccc	ctggaaccac	atccacctgg	ggaggggcct	2400
tctgaatgga	gttctgacac	cgcagagggc	aggccatgcc	cttatccgca	ctgccagggtg	2460
ctgtcggccc	agcctggctc	agaggaggaa	ctcagaggagc	tgtgtgaaca	ggctgtgtga	2520
gatgttcagg	cctagctcca	accaagagtg	tgctccagat	gtgtttgggc	cctacctggc	2580
acagagtcct	gctcctggga	aaggaaagga	ccacagcaaa	caccattctt	tttgccgtac	2640
ttcctagaag	cactggaaga	ggactggtga	tggtggaggg	tgagaggggtg	ccgtttcctg	2700
ctccagctcc	agaccttgct	tgcaaaaaac	atctgcagtg	cagcaaatcc	atgtccagcc	2760
aggcaaccag	ctgctgcctg	tgccgtgtgt	gggctggatc	ccttgaaggc	tgagtttttg	2820
agggcagaaa	gctagctatg	ggtagccagg	tgttacaaag	gtgctgctcc	ttctccaacc	2880
cctacttggt	ttccctcacc	ccaagcctca	tgttcatacc	agccagtggg	ttcagcagaa	2940
cgcagtacac	cttatcacct	ccctccttgg	gtgagctctg	aacaccagct	ttggcccctc	3000
cacagtaagg	ctgctacatc	aggggcaacc	ctggctctat	cattttcctt	ttttgcaaaa	3060

```

aggaccagta gcataggtga gccctgagca ctaaaaggag gggtcctga agctttccca 3120
ctatagtgtg gagttctgtc cctgaggtgg gtacagcagc cttgggttcct ctgggggttg 3180
agaataagaa tagtggggag ggaaaaactc ctccttgaag atttcctgtc tcagagtccc 3240
agagaggtag aaaggaggaa tttctgctgg actttatctg ggcagaggaa ggatggaatg 3300
aaggtagaaa aggcagaatt acagctgagc ggggacaaca aagagttcct ctctgggaaa 3360
agttttgtct tagagcaagg atggaaaatg gggacaaca aggaaaagca aagtgtgacc 3420
cttgggtttg gacagcccag aggcccagct ccccagtata agccatacag gccagggacc 3480
cacaggagag tggattagag cacaagtctg gcctcactga gtggacaaga gctgatgggc 3540
ctcatcaggg tgacattcac ccagggcag cctgaccact cttggcccct caggcattat 3600
cccatttgga atgtgaatgt ggtggcaaag tgggcagagg accccacctg ggaacctttt 3660
tccctcagtt agtggggaga ctagcaccta ggtaccaca tgggtattta tatctgaacc 3720
agacagacgc ttgaatcagg cactatgtta agaaatatat ttatttgcta atatatttat 3780
ccacaaaaaa aaaaaaaaaa aa 3802

```

<210> 92

<211> 1236

<212> DNA

<213> NM_017918.3| Homo sapiens hypothetical protein FLJ20647 (FLJ20647), mRNA

```

<400> 92
caggcgctga cgaggagccc ggctgagggg ggatgcgccg ctgacgcctg cgggagccgc 60
gcgcctgggg cgggaggatg ctccagaggg gcctctggcc gtggcgcacg cggctgctgc 120
cgacccttg cacttgccgc ccagcgcgcc cgtggccgct gccgcctccg ccccaggttt 180
tgcgtgtgaa gctgtgtgga aatgtgaaat actaccagtc acaccattat agtaccgtgg 240
tgccacctga tgaataaca gttatttata gacatggcct tcccttggtg acacttacct 300
tgccatctag aaaagaacgt tgtcaattcg tagtcaaacc aatgttgtca acagttggtt 360
cattccttca ggacctaca aatgaagata agggatatcaa aactgcagcc atcttcacag 420
cagatggcaa catgatttca gcttctacct tgatggatat ttgctaata aatgatttta 480
aacttgtcat taataaaata gcatatgatg tgcagtgtcc aaagagagaa aaaccaagta 540
atgagcacac tgctgagatg gaacacatga aatccttggt tcacagacta ttacaatct 600
tgcatttaga agagtctcag aaaaagagag agcaccattt actggagaaa attgaccacc 660
tgaaggaaca gctgcagccc cttgaacagg tgaaagctgg aatagaagct cattcggaag 720
ccaaaaccag tggactcctg tgggctggat tggcactgct gtccattcag ggtggggcac 780
tggcctggct cacgtggtgg gtgtactcct gggatatcat ggagccagtt acatacttca 840

```

```

tcacatttgc aaattctatg gtcttttttg catactttat agtcactcga caggattata    900
cttactcagc tgttaagagt aggcaatttc ttcagttctt ccacaagaaa tcaaagcaac    960
agcactttga tgtgcagcaa tacaacaagt taaaagaaga ccttgctaag gctaaagaat   1020
ccctgaaaca ggcgcgtcat tctctctgtt tgcaaatgca agtagaagaa ctcaatgaaa   1080
agaattaatc ttacagtttt aaatgtcgtc agattttcca ttatgtattg attttgcaac   1140
ttaggatgtt tttgagtccc atggttcatt ttgattgttt aatctttgtt attaaattct   1200
tgtaaaacag aaaaaaaaaa aaaaaaaaaa aaaaaa                1236

```

<210> 93

<211> 2096

<212> DNA

<213> NM_024792.1| Homo sapiens membrane protein expressed in epithelial-like lung adenocarcinoma (CT120), mRNA

```

<400> 93
agccacgcgg cgccagcgag gcggccggac ccgcagcccc gatgctgctg acgctggccg    60
ggggcgcgct cttcttcccc gggctcttcg cgctctgcac ctgggcgctg cgccgctccc   120
agccccgatg gagccgcacc gactgcgtga tgatcagcac caggctgggt tcctcgggtgc   180
acgccgtgct ggccaccggc tcgggggatcg tcatcattcg ctctcgcgac gacgtgatca   240
ccggcaggca ctggcttgcc cgggaatatg tgtggtttct gattccatac atgatctatg   300
actcgtagcg catgtacctc tgtgaatggt gccgaaccag agaccagaac cgtgcgcctt   360
ccctcactct tcgaaacttc ctaagtcgaa accgcctcat gatcacacat catgcgggtca   420
ttctctttgt ctttgtgcca gtcgcacaga ggctccgggg agaccttggg gacttctttg   480
tcggctgcat cttcacggca gaactgagca ctccgtttgt gtcgctgggc agggttctga   540
ttcagctaaa gcagcagcac acccttctgt acaaggtgaa tggaatcctc acgctggcca   600
ccttcctttc ctgccggatc cttctcttcc ctttcatgta ctggctcctat ggccgccagc   660
agggactaag cctgctccaa gtacccttca gcatccatt ctactgcaac gtggccaatg   720
ccttcctcgt agctcctcag atctactggt tctgtctgct gtgcaggaag gcagtccggc   780
tctttgacac tccccagcc aaaaaggatg gctaaatgct cctgggagtc aggcgcagcc   840
tcacaccagc tgctcctcc actcagcatt ccatggacca aattgtgccc tgggtagcct   900
cagactttgg gtattgataa gccgatggat ttgagttttt ctaaagaata ttcattattac   960
ctccttcttc taacttgccc tatttgcaaa agcacttttg tagtaacaac tattgggtcc  1020
tgtcagacct ccacggacag caaagtgggt ttaatgcaag cccaaggatc cttcttaagg  1080
tcttatctca agagctctgg gaggtggaag catggggtgg gatcgggtgga ccagggtggt  1140
aagtgtctgc acatctgcct gtccctgtat cagcggctac ccaccttcca aaccactcag  1200

```

```

gacagtaccc gtggcactgg gcccgcagaa gcaagggatg acttggttct tggaagtaat 1260
gtcgtcttgt gacattggcc tgggacaatc atttgtgggta ggtagttatt gatcgtttac 1320
tagataaccc atttggttctt tgcctcatcc tctcatccat gggtcagagt tgaattctta 1380
tgtctataga cttccaatca gaagtctcac tgggtggggct ggggggtgggg gcaggcagga 1440
ggcatggatg ggaacctgag taggtagtgt ggccaagaga tcagcacaac ctttgcaggc 1500
tgacttgcta agtctgacag tgacaaactt gtgagcttac tgcagtcagt cacagaggct 1560
gttctttttc acacacccct tcatgcccgg ctttcccat atccacatgc agagggcgag 1620
ctcataaaac tacagggaag cgtgaaatga tggctttggg agctgtttac tgggtaaccc 1680
cactgtgaca ctgtcctttt catgtgatgt ggaacactac ttctgtcctc caaacatga 1740
aatgtgtcat ctagactgca gagtacttga gtgctttgcc tcccgatatg ccagagcttg 1800
tggtccaaag ccatttcctg tgtgtccgtc ctgccattta gccacagaag gctgcgaggt 1860
gaggcggcag ctagcctggc cagtggctgt cccgtggacc gacacctgcg ccccttctg 1920
caagcaggat tttctggtgc caacactcat tcatcattcc cgatcaacta ggatgaattt 1980
aagactgtgc taccatgtgt tctcaagtgg tagtttaaaa agtggatttt taaagtgcct 2040
ttcaattgtc tgtgaacgtc taaaggactg atttgtctca aaaaaaaaaa aaaaaa 2096

```

<210> 94

<211> 4372

<212> DNA

<213> NM_014314.2| Homo sapiens DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (DDX58), mRNA

```

<400> 94
tagttattaa agttcctatg cagctccgcc tcgctccgg cctcatttcc tcggaaaatc 60
cctgcttttc ccgctcgcca cgccctctc ctaccggct ttaaagctag tgaggcacag 120
cctgcgggga acgtagctag ctgcaagcag aggccggcat gaccaccgag cagcgacgca 180
gcctgcaagc cttccaggat tatatccgga agaccctgga ccctacctac atcctgagct 240
acatggcccc ctggtttagg gaggaagagg tgcagtatat tcaggctgag aaaaacaaca 300
agggcccaat ggaggctgcc acactttttc tcaagttcct gttggagctc caggaggaag 360
gctggttccg tggctttttg gatgccctag accatgcagg ttattctgga ctttatgaag 420
ccattgaaag ttgggatttc aaaaaaattg aaaagttgga ggagtataga ttacttttaa 480
aacgtttaca accagaattt aaaaccagaa ttatcccaac cgatatcatt tctgatctgt 540
ctgaatgttt aattaatcag gaatgtgaag aaattctaca gatttgctct actaagggga 600
tgatggcagg tgcagagaaa ttggtggaat gccttctcag atcagacaag gaaaactggc 660
ccaaaacttt gaaacttgct ttggagaaag aaaggaacaa gttcagtga ctgtggattg 720

```

tagagaaagg	tataaaagat	gttgaaacag	aagatcttga	ggataagatg	gaaacttctg	780
acatacagat	tttctacca	gaagatccag	aatgccagaa	tcttagtgag	aattcatgtc	840
caccttcaga	agtgtctgat	acaaacttgt	acagcccatt	taaaccaaga	aattaccaat	900
tagagcttgc	tttgccctgct	atgaaaggaa	aaaacacaat	aatatgtgct	cctacagggt	960
gtggaaaaac	ctttgttttca	ctgcttatat	gtgaacatca	tcttaaaaaa	ttcccacaag	1020
gacaaaaggg	gaaagttgtc	ttttttgcga	atcagatccc	agtgtatgaa	cagcagaaat	1080
ctgtattctc	aaaatacttt	gaaagacatg	ggtagatagt	tacaggcatt	tctggagcaa	1140
cagctgagaa	tgtcccagtg	gaacagattg	ttgagaacaa	tgacatcatc	attttaactc	1200
cacagattct	tgtgaacaac	cttaaaaagg	gaacgattcc	atcactatcc	atctttactt	1260
tgatgatatt	tgatgaatgc	cacaacacta	gtaaacaaca	cccgtacaat	atgatcatgt	1320
ttaattatct	agatcagaaa	cttggaggat	cttcaggccc	actgccccag	gtcattgggc	1380
tgactgcctc	ggttggtggt	ggggatgcca	aaaacacaga	tgaagccttg	gattatatct	1440
gcaagctgtg	tgtttctctt	gatgcgtcag	tgatagcaac	agtcaaacac	aatctggagg	1500
aactggagca	agtgtgtttat	aagccccaga	agtttttcag	gaaagtggaa	tcacggatta	1560
gcgacaaatt	taaatacatc	atagctcagc	tgatgaggga	cacagagagt	ctggcaaaga	1620
gaatctgcaa	agacctcgaa	aacttatctc	aaattcaaaa	tagggaattt	ggaacacaga	1680
aatatgaaca	atggattggt	acagttcaga	aagcatgcat	ggtgttccag	atgccagaca	1740
aagatgaaga	gagcaggatt	tgtaaagccc	tgtttttata	cacttcacat	ttgcggaaat	1800
ataatgatgc	cttcattatc	agtgagcatg	cacgaatgaa	agatgctctg	gattacttga	1860
aagacttctt	cagcaatgtc	cgagcagcag	gattcgatga	gattgagcaa	gatcttactc	1920
agagatttga	agaaaagctg	caggaactag	aaagtgtttc	cagggatccc	agcaatgaga	1980
atcctaaact	tgaagacctc	tgcttcatct	tacaagaaga	gtaccactta	aaccagaga	2040
caataacaat	tctctttgtg	aaaaccagag	cacttggtga	cgctttaaaa	aattggattg	2100
aaggaaatcc	taaactcagt	tttctaaaac	ctggcatatt	gactggacgt	ggcaaaacaa	2160
atcagaacac	aggaatgacc	ctcccgccac	agaagtgtat	attggatgca	ttcaaagcca	2220
gtggagatca	caatattctg	attgccacct	cagttgctga	tgaaggcatt	gacattgcac	2280
agtgcaatct	tgtcatcctt	tatgagtatg	tgggcaatgt	catcaaatg	atccaaacca	2340
gaggcagagg	aagagcaaga	ggtagcaagt	gcttccttct	gactagtaat	gctggtgtaa	2400
ttgaaaaaga	acaaataaac	atgtacaaag	aaaaaatgat	gaatgactct	attttacgcc	2460
ttcagacatg	ggacgaagca	gtatttaggg	aaaagattct	gcatatacag	actcatgaaa	2520
aattcatcag	agatagtcaa	gaaaaaccaa	aacctgtacc	tgataaggaa	aataaaaaac	2580
tgtctgcag	aaagtgcaaa	gccttggcat	gttacacagc	tgacgtaaga	gtgatagagg	2640
aatgccatta	cactgtgctt	ggagatgctt	ttaaggaatg	ctttgtgagt	agaccacatc	2700
ccaagccaaa	gcagtttttca	agttttgaaa	aaagagcaaa	gatattctgt	gcccagacaga	2760

```

actgcagcca tgactgggga atccatgtga agtacaagac atttgagatt ccagttataa 2820
aaattgaaag ttttgtggtg gaggatattg caactggagt tcagacactg tactcgaagt 2880
ggaaggactt tcattttgag aagataccat ttgatccagc agaaatgtcc aaatgatatc 2940
aggtcctcaa tcttcagcta cagggaatga gtaactttga gtggagaaga acaaacata 3000
gtgggtataa tcatggatcg cttgtacccc tgtgaaaata tatttttttaa aaatatcttt 3060
agcagtttgt actatattat atatgcaaag cacaatgag tgaatcacag cactgagtat 3120
tttgtaggcc aacagagctc atagtacttg ggaaaaatta aaaagcctca tttctagcct 3180
tctttttaga gtcaactgcc aacaaacaca cagtaatcac tctgtacaca ctgggataga 3240
tgaatgaatg gaatgttggg aattttttatc tccctttgtc tccttaacct actgtaaact 3300
ggcttttgcc cttaacaatc tactgaaatt gttcttttga aggttaccag tgactctggt 3360
tgccaaatcc actgggcact tcttaacctt ctatttgacc tctgcgcatt tggccctggt 3420
gagcactctt cttgaagctc tccctgggct tctctctctt ctagttctat tctagtcttt 3480
ttttattgag tcctcctctt tgctgatccc ttccaagggt tcaatatata tacatgtata 3540
tactgtacat atgtatatgt aactaatata catacatata ggtatgtata tgtaatggtt 3600
atatgtactc atgttcctgg tgtagcaacg tgtggtatgg ctacacagag aacatgagaa 3660
cataaagcca tttttatgct tactactaaa agctgtccac tgtagagttg ctgtatgtag 3720
caatgtgtat ccactctaca gtggtcagct tttagtagag agcataaaaa tgataaaata 3780
cttcttgaaa acttagttta ctatacatct tgccctatta atatgttctc ttaacgtgtg 3840
ccattgttct ctttgaccat tttcctataa tgatgttgat gttcaacacc tggactgaat 3900
gtctgttctc agatcccttg gatgttacag atgaggcagt ctgactgtcc tttctacttg 3960
aaagattaga atatgtatcc aaatggcatt cacgtgtcac ttagcaagggt ttgctgatgc 4020
ttcaaagagc ttagtttgcg gtttcctgga cgtggaaaca agtatctgag ttccctggag 4080
atcaacggga tgaggtgtta cagctgcctc cctcttcatg caatctggtg agcagtgggtg 4140
caggcgggga gccagagaaa cttgccagtt atataacttc tctttggctt ttcttcatct 4200
gtaaaacaag gataaactg aactgtaagg gttagtggag agtttttaat taaaagaatg 4260
tgtgaaaagt acatgacaca gtagttgctt gataatagtt actagtagta gtattcttac 4320
taagacccaa tacaatgga ttatttaaac caaaaaaaaaa aaaaaaaaaa aa 4372

```

<210> 95

<211> 2163

<212> DNA

<213> NM_015515.3| Homo sapiens keratin 23 (histone deacetylase inducible) (KRT23), transcript variant 1, mRNA

<400> 95
 ggcagatgaa atataagatt catcaaccac atttgacagc ccatggcagg tttcctgttt 60
 tccatcgtcc ctctgcaggt cacagacaca cagagcccag cctgaggcagg ctcagccggg 120
 gtccggggct gctaacaacg gctacattcc tccccaggg ccaagggaaa tcctgagcgc 180
 aggccagggt tgtttggttt tgaggtgtgc tgggatgaaa ggcaccctgg aagtgggaagg 240
 taaatgaaca atggaaaaac ttacaggcaa gattagaaag atacctgagc ccaatacccg 300
 cctgatgtcg tgggccacac ctccgggtta ccaggggaag ggaggaagca aactgtcata 360
 ttgatgtggc tctaaacaac aacagtgtgc gaaggcccag gggcactttg ggattgacca 420
 agaggaaaca caagttgcac aatgatacaa tcttgttggg acaattgtca gagaagggaa 480
 ctcccacagc aaaggccata aaaccatcca gggcagtctg gggcggctca gttctgcggg 540
 gccagggagt ggagcagagc tcagccccgt cccaacaca gatgggacca tgaactccgg 600
 acacagcttc agccagaccc cctcggcctc cttccatggc gccggagggtg gctggggccg 660
 gcccaggagc ttccccaggg ctcccaccgt ccatggcggg gcggggggag cccgcatctc 720
 cctgtccttc accacgcgga gctgccacc ccctggaggg tcttgggggt ctggaagaag 780
 cagcccccta ctaggcggaa atgggaaggc caccatgcag aatctcaacg accgcctggc 840
 ctctacctg gagaagggttc gcgccttgga ggaggccaac atgaagctgg aaagccgcat 900
 cctgaaatgg caccagcaga gagatcctgg cagtaagaaa gattattccc agtatgagga 960
 aaacatcaca cacctgcagg agcagatagt ggatggtaag atgaccaatg ctcagattat 1020
 tcttctcatt gacaatgccg ggatggcagt ggatgacttc aacctcaagt atgaaaatga 1080
 aactccttt aagaaagact tggaattga agtcgagggc ctccgaagga ccttagacaa 1140
 cctgaccatt gtcacaacag acctagaaca ggagggtgaa ggaatgagga aagagctcat 1200
 tctcatgaag aagcaccatg agcaggaaat ggagaagcat catgtgccaa gtgacttcaa 1260
 tgtcaatgtg aagggtgata cagggtcccag ggaagatctg attaagggtc tggaggatat 1320
 gagacaagaa tatgagctta taataaagaa gaagcatcga gacttggaca cttggtataa 1380
 agaacagtct gcagccatgt ccaggaggc agccagtcca gccactgtgc agagcagaca 1440
 aggtgacatc cacgaactga agcgcacatt ccaggccctg gagattgacc tgcagacaca 1500
 gtacagcacg aaatctgctt tggaaaacat gttatccgag acccagtctc ggtactcctg 1560
 caagctccag gacatgcaag agatcatctc ccactatgag gaggaactga cgcagctacg 1620
 ccatgaactg gagcggcaga acaatgaata ccaagtgtc ctgggcatca aaaccacct 1680
 ggagaaggaa atcaccacgt accgacggct cctggaggga gagagtgaag ggacacggga 1740
 agaatcaaag tcgagcatga aagtgtctgc aactccaaag atcaaggcca taaccagga 1800
 gaccatcaac ggaagattag ttctttgtca agtgaatgaa atccaaaagc acgcatgaga 1860
 ccaatgaaag tttccgcctg ttgtaaaatc tttttcccc caaggaaagt ccttgcacag 1920
 acaccagtga gtgagttcta aaagatcccc ttggaattat cagactcaga aacttttatt 1980

```

ttttttttct gtaacagtct caccagactt ctcataatgc tcttaatata ttgcactttt 2040
ctaatacaag tgcgagttta tgagggtaaa gctctacttt cctactgcag ccttcagatt 2100
ctcatcattt tgcattctatt ttgtagccaa taaaactccg cactagcaaa aaaaaaaaaa 2160
aaa 2163

```

<210> 96

<211> 2881

<212> DNA

<213> NM_007210.2| Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetyl-galactosaminyltransferase 6 (GalNAc-T6) (GALNT6), mRNA

```

<400> 96
atgaggctcc tccgcagacg ccacatgccc ctgcgcttgg ccatgggtggg ctgcgctttt 60
gtgctcttcc tcttcctcct gcatagggat gtgagcagca gagaggaggc cacagagaag 120
ccgtggctga agtccctggg gagccggaag gatcacgtcc tggacctcat gctggaggcc 180
atgaacaacc ttagagattc aatgcccaag ctccaaatca gggctccaga agcccagcag 240
actctgttct ccataaacca gtcctgcctc cctgggttct ataccccagc tgaactgaag 300
cccttctggg aacggccacc acaggacccc aatgcccctg gggcagatgg aaaagcattt 360
cagaagagca agtggacccc cctggagacc caggaaaagg aagaaggcta taagaagcac 420
tgtttcaatg cctttgccag cgaccggatc tccctgcaga ggtccctggg gccagacacc 480
cgaccacctg agtgtgtgga ccagaagttc cggcgctgcc cccactggc caccaccagc 540
gtgatcattg tgttcacaa cgaagcctgg tccacactgc tgcgaacagt gtacagcgctc 600
ctacacacca cccctgcat cttgctcaag gagatcatac tgggtggatga tgccagcaca 660
gaggagcacc taaaggagaa gctggagcag tacgtgaagc agctgcagggt ggtgagggtg 720
gtgcggcagg aggagcggaa ggggttgatc accgcccggc tgctgggggc cagcgtggca 780
caggcggagg tgctcacgtt cctggatgcc cactgtgagt gcttccacgg ctggctggag 840
cccctcctgg ctgcaatcgc tgaggacaag acagtgggtg tgagcccaga catcgtcacc 900
atcgacctta atacttttga gttcgccaag cccgtccaga ggggcagagt ccatagccga 960
ggcaactttg actggagcct gaccttcggc tgggaaacac ttcctccaca tgagaagcag 1020
aggcgcaagg atgaaacata ccccatcaaa tccccgacgt ttgctgggtg cctcttctcc 1080
atccccaagt cctactttga gcacatcggt acctatgata atcagatgga gatctgggga 1140
ggggagaacg tggaaatgtc cttccgggtg tggcagtgtg ggggccagct ggagatcatc 1200
ccctgctctg tcgtaggcca tgtgttccgg accaagagcc cccacacctt cccaagggc 1260
actagtgtca ttgctcgcaa tcaagtgcgc ctggcagagg tctggatgga cagctacaag 1320
aagattttct ataggagaaa tctgcaggca gcaaagatgg cccaagagaa atccttcggt 1380

```



```

gacatttcgga aacgactgca gctgagggaa caactgcact gtcacaactt ttcctggtac 1440
ctgcacaatg tctaccaga gatgtttgtt cctgacctga cgccacactt ctatggtgcc 1500
atcaagaacc tcggcaccaa ccaatgcctg gatgtgggtg agaacaaccg cggggggaag 1560
cccctcatca tgtactcctg ccacggcctt ggcggcaacc agtactttga gtacacaact 1620
cagaggggacc ttcgccacaa catcgcaaag cagctgtgtc tacatgtcag caaggggtgct 1680
ctgggacctg ggagctgtca cttcactggc aagaatagcc aggtcccaaa ggacgaggaa 1740
tggaattgg cccaggatca gctcatcagg aactcaggat ctggtacctg cctgacatcc 1800
caggacaaaa agccagccat ggccccctgc aatcccagtg acccccatca gttgtggctc 1860
tttgtctagg acccagatca tccccagaga gagccccac aagctcctca ggaaacagga 1920
ttgctgatgt ctgggaacct gatcaccagc ttctctggag gccgtaaaga tggatttcta 1980
aaccactgg gtggcaaggc aggaccttcc taatccttgc aacaacattg ggccatttt 2040
ctttccttca caccgatgga agagaccatt aggacatata tttagcctag cgttttcctg 2100
ttctagaaat agaggctccc aaagtaggga aggcagctgg gggagggttc agggcagcaa 2160
tgctgagttc aagaaaagta cttcaggctg ggcacagtgg ctcatgcctg aaatcctagc 2220
actttgggaa gacaatgtgg gagaatggct tgagcccagg agttcaagac cggcctgagc 2280
aacatagtga ggatcccatc tctacgcca ccctccccc ggcaaaaaaa aaagctgggt 2340
atggtggctt atgcctgtag tcgcagctac tcagaaggct gaggtgggag gattgcttgt 2400
tccccggagg ttgaagctac agtgagcctt gattgtgtca ctgcactcca gcctgggcaa 2460
caggtaaagac tctgtctcaa aaaaaaaca aaaaagaaga agaaaagtac ttctacagcc 2520
atgtcctatt cttgatcat ccaaagcacc tgcagagtcc agtgaaatga tatattctgg 2580
ctgggcacag tggctcacac ctgtaatcct agcactttgg gaggccaagg caggtggatc 2640
acctgaggtc agaagtttga aaccagcctg gactacatgg tgaaactcca tctctactaa 2700
aagtacaaaa attagctggg catgatggca cgcacctgca gtcccagcta cttgggagggc 2760
tgaggcagga gaatcactcg aaccaggag gcagagggtg cagtgagcca agacagcacc 2820
attgcacccc agcctgagca acaagagcga aactccatct caggaaaaaa aaaaaaaaaa 2880
a 2881

```

<210> 97

<211> 1930

<212> DNA

<213> NM_020183.3| Homo sapiens aryl hydrocarbon receptor nuclear translocator-like 2 (ARNTL2), mRNA

<400> 97

```

gaccaagtgg ctcctgcgat ggcggcggaa gaggaggctg cggcgggagg taaagtgttg 60

```

```

agagaggaga accagtgcac tgctcctgtg gtttccagcc gcgtgagtcc agggacaaga 120
ccaacagcta tgggggtcttt cagctcacac atgacagagt ttccacgaaa acgcaaagga 180
agtgattcag acccatccca gtcaggaatc atgacagaaa aagtgggtgga aaagctttct 240
cagaatcccc ttacctatct tctttcaaca aggatagaaa tatcagcctc cagtggcagc 300
agagtggaag atggtgaaca ccaagttaaa atgaaggcct tcagagaagc tcatagccaa 360
actgaaaagc ggaggagaga taaaatgaat aacctgattg aagaactgtc tgcaatgac 420
cctcagtga accccatggc gcgtaaactg gacaaactta cagttttaag aatggctgtt 480
caacacttga gatctttaa aggcttgaca aattcttatg tgggaagtaa ttatagacca 540
tcatttcttc aggataatga gctcagacat ttaatcctta agactgcaga aggttctta 600
tttgtggttg gatgtgaaag aggaaaaatt ctcttcgttt ctaagtcagt ctccaaaata 660
cttaattatg atcaggctag ttgactgga caaagcttat ttgacttctt acatccaaaa 720
gatgttgcca aagtaaagga acaactttct tcttttgata tttcaccaag agaaaagcta 780
atagatgcca aaactgggtt gcaagttcac agtaatctcc acgttggaag gacacgtgtg 840
tattctggct caagacgatc ttttttctgt cggataaaga gttgtaaaat ctctgtcaaa 900
gaagagcatg gatgcttacc caactcaaag aagaaagagc acagaaaatt ctatactatc 960
cattgcactg gttacttgag aagctggcct ccaaatattg ttggaatgga agaagaaagg 1020
aacagtaaga aagacaacag taattttacc tgccttgtgg ccat tgggaag attacagcca 1080
tatattgttc cacagaacag tggagagatt aatgtgaaac caactgaatt tataaccggg 1140
tttgcagtga atggaaaatt tgtctatgta gatcaaagg caacagcgat ttaggatat 1200
ctgcctcagg aacttttggg aacttcttgt tatgaatatt ttcatcaaga tgaccacaat 1260
aatttgactg acaagcacia agcagttcta cagagtaagg agaaaatact tacagattcc 1320
tacaaattca gagcaaaaaga tggctctttt gtaactttta aaagccaatg gtttagtttc 1380
acaaatcctt ggacaaaaga actggaatat attgtatctg tcaacacttt agttttggga 1440
catagtgagc ctggagaagc atcattttta ccttgtagct ctcaatcatc agaagaatcc 1500
tctagacagt cctgtatgag tgtacctgga atgtctactg gaacagtact tgggtgctggt 1560
agtattggaa cagatattgc aaatgaaatt ctggatttac agaggttaca gtcttcttca 1620
taccttgatg attcgagtcc aacagggtta atgaaagata ctcatactgt aaactgcagg 1680
agtatgtcaa ataaggagtt gtttccacca agtccttctg aaatggggga gctagaggct 1740
accaggcaaa accagagtac tgttgctgtc cacagccatg agccactcct cagtgatggt 1800
gcacagttgg atttcgatgc cctatgtgac aatgatgaca cagccatggc tgcatttatg 1860
aattacttag aagcagaggg gggcctggga gaccctgggg acttcagtga catccagtgg 1920
accctctagc 1930

```

<210> 98

<211> 2128

<212> DNA

<213> NM_014576.2| Homo sapiens apobec-1 complementation factor (ACF), transcript variant 1, mRNA

<400> 98

```

tttgatatga cgattagagc ataacccgag tgacacgttg aattcgccat aatcaaggaa      60
acctttttccg ggtggggatc tctgaaatta ctcagataac agtgctgtgc caaaaacctg      120
tggatttttct ctacaaaaat tattgagcaa ccctaattaa cctgattttt tgctgataat      180
cactctcaat ggaatcaaat cacaaatccg gggatggatt gagcggcact cagaaggaag      240
cagccctccg cgcactggtc cagcgcacag gatatagctt ggtccaggaa aatggacaaa      300
gaaaatatgg tggccctcca cctgggtggg atgctgcacc ccctgaaagg ggctgtgaaa      360
tttttattgg aaaacttccc cgagaccttt ttgaggatga gcttatacca ttatgtgaaa      420
aaatcggtaa aattttatgaa atgagaatga tgatggattt taatggcaac aatagaggat      480
atgcattttgt aacattttca aataaagtgg aagccaagaa tgcaatcaag caacttaata      540
attatgaaat tagaaatggg cgcctcttag gggtttgtgc cagtgtggac aactgccgat      600
tatttgttgg gggcatccca aaaacaaaaa agagagaaga aatcttatcg gagatgaaaa      660
aggttactga aggtgttgtc gatgtcatcg tctacccaag cgctgcagat aaaacaaaaa      720
accgaggctt tgccttcgtg gagtatgaga gtcatcgagc agctgccatg gcgaggagga      780
aactgctacc aggaagaatt cagttatggg gacatggtat tgcagtagac tgggcagagc      840
cagaagtaga agttgatgaa gatacaatgt cttcagtga aatcctatat gtaagaaatc      900
ttatgctgtc tacctctgaa gagatgattg aaaaggaatt caacaatatc aaaccagggtg      960
ctgtggagag ggtgaagaaa attcgagact atgcttttgt gcacttcagt aaccgagaag     1020
atgcagttga ggctatgaaa gctttaaatg gcaagggtgct ggatggttcc cccattgaag     1080
tcaccctagc aaaaccagtg gacaaggaca gttatgttag gtataccga ggcacagggtg     1140
gaagggggcac catgctgcaa ggagagtata cctactcttt gggccaagtt tatgatccca     1200
ccacaaccta ccttgagact cctgtcttct atgccccca gacctatgca gcaattccca     1260
gtcttcattt cccagccacc aaaggacatc tcagcaacag agccattatc cgagcccctt     1320
ctgttagagg ggctgcggga gtgagaggac tgggcggccg tggctatttg gcatacacag     1380
gcctgggtcg aggataccag gtcaaaggag acaaaagaga agacaaactc tatgacattt     1440
tacctgggat ggagctcacc ccaatgaatc ctgtcacatt aaaaccccaa ggaattaaac     1500
tcgctcccca gatattagaa gagatttgct agaaaaataa ctggggacag ccagtgtacc     1560
agctgcactc tgctattgga caagacaaa gacagctatt cttgtacaaa ataactattc     1620
ctgctctagc cagccagaat cctgcaatcc accctttcac acctccaaag ctgagtgcct     1680
ttgtggatga agcaaagacg tatgcagccg aatacacccct gcagaccctg ggcatcccca     1740

```

ctgatggagg	cgatggcacc	atggctactg	ctgctgctgc	tgctactgct	ttcccaggat	1800
atgctgtccc	taatgcaact	gcacccgtgt	ctgcagccca	gctcaagcaa	gcggtaaccc	1860
ttggacaaga	cttagcagca	tatacaacct	atgaggtcta	cccaactttt	gcagtgactg	1920
cccgagggga	tgatgatggc	accttctgaa	gatgcttttt	taaatttaag	aataagacac	1980
acaaaactct	attaaaaaaaa	aaaaagaaat	aaacctctaa	ctcgggtccc	aatgatcata	2040
aataatatgt	ttcctaaaga	aatgcctttc	cagagactgt	atagcttata	ccaattatag	2100
aatcatgaag	taaaaaaaaa	aaaaaaaa				2128

<210> 99

<211> 5730

<212> DNA

<213> NM_019008.4| Homo sapiens hypothetical protein FLJ20232 (FLJ20232), mRNA

<400> 99						
cctccgcctc	cactcgcctt	cgtgctccct	tcagcccctt	cgcagctccg	tgcgcaaggt	60
cgtgtccccg	aagtgaagg	gccatgttga	tgggtgaccc	ggggagaggt	acccggccag	120
aggcgagtcc	tgcggagtgg	tagcgcgcac	ggcctgcggt	gtgacaccca	gcccctgcca	180
gtcccccatg	gccccgtgga	gccgagaggc	ggtgctgagt	ctctatcggg	ctctgttgcg	240
ccagggccga	cagcttcgct	acactgatcg	agacttctac	tttgcctcca	tccgccgtga	300
attccgaaaa	aatcagaagc	tagaggacgc	tgaggcccgg	gagaggcagc	tggagaaggg	360
cctggtcttt	ctcaacggca	aattggggag	gatcatttag	gatcctccaa	gggaaagagg	420
acaaaggtgc	cttctgtaga	cactcctgct	ctcttccatc	cccatcttac	agatgtatta	480
agaagcctca	gatgagcaat	ggcagggcgt	ggtgagcgca	aaggcaagaa	ggatgacaat	540
ggcattggca	cggccattga	ctttgtgctc	tccaatgccc	ggctggtgct	gggggtgggt	600
ggagcggcca	tgctgggcat	cgccacgctg	gcagttaagc	ggatgtacga	tcgggcgatc	660
agtgccccta	ccagccccac	ccgcctgagc	cattcgggga	aaaggagctg	ggaagaaccc	720
aactggatgg	gctccccacg	actgctgaac	agggacatga	agacgggcct	gagccggtcc	780
ttgcagaccc	ttcccacaga	ctcctccacc	ttcgacacag	atacattctg	cccgccccgg	840
cccaagccag	tggccaggaa	gggccaggta	gacttgaaga	agtcacgact	ccgcatgtcc	900
ctgcaggaga	aacttcttac	ttactaccgg	aaccggggcag	ccatccctgc	tggagagcag	960
gctcggggcca	agcaagctgc	tgtggacata	tgtgccgagc	tccggagctt	cctgcggggc	1020
aagttgcctg	acatgccgct	tcgggacatg	tacttgagtg	gcagcctcta	cgatgacctg	1080
caggtggtga	cagctgacca	catccaactc	attgtgcccc	ttgtgctgga	gcagaacctg	1140
tggtcatgta	ttcctggtga	agacaccatc	atgaatgtcc	ctggcttctt	cctggtgcgt	1200

cgtgagaatc	cagagtactt	tcctcgtggg	agcagttact	gggaccgctg	tgtagtaggg	1260
ggctacctct	ctccaaagac	agtcgcagat	acatttgaga	aggtagtggc	tggctccatc	1320
aattggccag	ccatagggtc	cctcttgga	tatgtgatcc	gcccggcccc	acccccagaa	1380
gccctcacac	tggaggtgca	gtatgagcgt	gacaaacatc	tcttcattga	cttcctgcca	1440
tcagtgaccc	tcggtgacac	agtcttggtg	gccaaaccac	accggctagc	ccagtatgac	1500
aacctgtggc	ggctgagcct	gcgtcccgcg	gagacggcac	gcctgcgggc	tctggaccag	1560
gctgactcgg	gctgccgatc	tctgtgcctc	aagatcctca	aggccatatg	caagtccacc	1620
ccggctctgg	gccacctcac	tgccagccag	ctaaccaatg	tcatcctcca	cttggtcccag	1680
gaggaggctg	actggtctcc	ggatatgctg	gccgaccgtt	tcctgcaggc	cttgagggga	1740
cttatcagct	acttagaggc	tggagtcctg	cccagtgcc	taaaccccaa	ggtgaactta	1800
tttgacagagc	tcaccctga	agaaatagac	gaattaggat	acactctgta	ttgctcattg	1860
tctgagccag	aggtgctgct	gcagacgtag	ggcaggtgaa	ggccaaagcg	ggtgttggtg	1920
gtcaggccct	ggattctccg	ttagatacac	ttggctacct	agttggtgcc	tcacaggggt	1980
cctgctgcct	ggtgtcttgc	tgatcatcac	cctggtcact	tcattgctgat	tagaatgaca	2040
tctctttcgt	ctcctatctt	gttaccaca	tcttcctatt	tttggtacca	atcactgtgc	2100
tctctgccgc	cccctggctc	caggctaatt	tttctggaat	gaattgagaa	ggtggcgtgc	2160
tggcctgagc	tgatggacca	cttggtgttt	tgcgttttgg	cccatgtttg	ctgcctctat	2220
ctggtctgcc	ttgcccgttt	gcctgttcct	attcagtgtc	ttttctatct	tttcctctct	2280
cgttcatgcc	ttctgttttg	ctcttgctcc	tggagcatat	ctgcctaatt	aagatgttgc	2340
cttttagttg	aatgccactg	aagagctgtg	atagcatgtt	tcaaagctga	actctacaga	2400
gcgagtgtg	agacagtatt	tagggtttct	gggagtgagg	ctggtagaag	agttggcctt	2460
tgaccacggg	tcctggagta	gaagtccatc	ctcccccaa	cctcctgacc	cattcataaa	2520
tgctgagaat	gtctctcatg	ggaacactgt	taatgacca	cacaggataa	gctgaatgca	2580
aagttatttg	caggttgaat	ttcttggtgg	ctattagcag	aagtgcagag	tagggaacca	2640
gagctgggta	agggcctagt	gaagggtttg	tgtgcccagt	gtctgctcgt	catctgtggc	2700
tgcaggggtc	agacagacaa	ggatggggac	tgccagggca	ccacttcac	atgaatgctg	2760
gttttcacac	cttttcctta	ttttattgcc	aatcaggaca	aggccttgaa	ggaacgcagc	2820
cttagacatc	aggtgaggat	gatggaggta	gacagtcgac	tgaatgtcag	ctggaaaatc	2880
cagtcactag	ttgggggttg	gtggccatgt	tttctacca	gacaggccct	gcttttctag	2940
gatgtggcct	tagagcaaga	acagacccaa	cagccagccc	ttcatcctcc	agcgtctgcc	3000
ataggaatgt	gagaggggtg	tttgctgagc	gctccgggca	cggccagagg	gcaagtgagc	3060
atgcacggac	ctcttcccc	tgtcctgttt	ctcaccagc	acctggggag	atcggtgcta	3120
ccaaggaaga	gagcacacag	ataagacaga	ggggaggagg	tgggcatttc	ctacattcct	3180
ccttggttgc	cgctgctgag	attgcagtat	ttattgcaat	gtaaatgtat	cctgaagggtg	3240

gggaggaatg	tttaatctac	catgtccgtg	tgtcatcttg	gtttgtgttt	ttccctgttt	3300
gtagcaagac	tctgatgata	attctgtttc	tcatctgccc	attcagtatt	ttgttttcct	3360
tccgtcaagt	tgtcttattt	tttcaatgac	tacctctcca	tcattgaggt	tctggtgaag	3420
ctctctgcag	ctgtctcatt	ccttcccaac	gatagtaaca	ggaaatgact	ctttagcatc	3480
gataacctcaa	catcaattta	gggtagagat	tcctgcccct	cttttgtcac	agattaggaa	3540
attgagaact	agggttaacc	ttgactatat	ttagagggtct	ttttgcctct	tttcccctta	3600
acaaggattt	cttatgggtg	tttcagtttc	atttgcataa	aggtattgag	agggaacaaa	3660
aaacataaag	ctgagaatct	tgagagagct	catctaccct	gtctgttggt	cagactcaaa	3720
tgagagttaa	aaaaaaaaaa	aaaaatctgt	atgcctgagt	accatcctgg	atgaatctag	3780
aagggtatggg	gtagagcttg	acagggttcc	tgtgtaccca	ctgggtatcc	gttagaggta	3840
agggagagga	gaggattgat	agagtgttgc	aaaagtatag	attattcatt	gagataaagg	3900
atttggtttc	cctgcatga	gtattaaaaa	aatttaagtt	ttccaagct	tgcattctctg	3960
accaaatttc	acataaaaaca	ttggaaggag	gctgggtgcg	gtggctcatg	cttgtaatcc	4020
cagcactggg	aagctaaggc	gggtggatca	cttgagggtca	ggagttcgag	accagcctgg	4080
ccaacatggg	gaaacccgt	ctccacgaaa	aagataaaaa	taagctgggc	gtggtggcag	4140
gcgcctataa	tcccagctac	tcgggagggt	gaggcaggag	aataacttaa	acccgggagg	4200
cggagggttac	agttagctga	gatcgtgcc	ctgcactcca	gcctgggtga	cagagtgaga	4260
ccctattttca	aaaaaataaa	aattggaaga	agagcttaaa	aaagataaga	ttttaagag	4320
tccaagtta	tttaagttga	gtgtaattgt	catttaagga	aggcaaatga	gtttatcatc	4380
cttcttaaa	agcatctctt	ttaactgttg	gacaaaacca	taactttgtc	attttacaag	4440
gaagaacctc	ttaagaagtc	ctcagaacca	gaagcaatgt	gaactctcag	cgctggtcct	4500
gggtgggtttg	ctgaccatga	ctgggcaagc	cgttcttttt	gctgccatct	tcctcatcat	4560
aaagtgtgga	acataggcaa	ttgctttgag	attcttggat	agaagaggac	aacattctgc	4620
acctgcccc	ttttttaaat	ctttggggaa	agatgagtaa	ctttccccac	tactctgcct	4680
tcctgttcag	taactcttac	ttttgcctga	agtaacagca	tcttctactt	ctccatctag	4740
agatttttgt	gtgtgtgcc	tcaagggttag	caaactttat	acgtagccta	acacttaaaa	4800
aatgcactca	ttatcttaaa	cctaataaat	tccagagttt	attttggttc	tcctctgttg	4860
cccttcctaa	aaaatgagct	gaagatgaca	gtatttttct	ttacatgctt	ggttatgact	4920
tttaaagttt	tatttaataa	aatgttgaag	ctcaagttta	aagaagcggt	gcagaggccc	4980
acggtctcct	gggtcccggc	cacctgtcca	tattccacat	ttgctgactg	tgctccctgc	5040
actccactca	agttgagagt	tcaaatagtc	ttgaagggga	atcagcttca	ggatggaagg	5100
accaggaga	ggccccgagg	tgggaggggt	ctgtaaatac	agactactgc	gagtgtccag	5160
agctctctgc	catgatactt	ccttgggact	gacttggctg	agaacgtgtt	ctgtcagagg	5220

```

atttgttaga actctgccct tttgtctgaa actcaaggcc aaggagaatg ataggagact 5280
taggacagag ctgacccttg caccaggctg ggaggctgca gcccttttag atgccactta 5340
ctgtaagtgg ccagaatacc agagaggctg gttccatggt caaatgcaca gtaggtgttt 5400
acctttacat ttggatcacc ttgtagtctt taaattcttg gtccctgagg ccaagtccac 5460
aacttgcctt ctagtcaact gcctgcccgc agtgggtggt gatgtgttag ctggtagatt 5520
tggaatcagt caccagtctt tctgtactgt cttgggttagc tctatataag taggggcagc 5580
ttagccctga ggcccagaga cctgctgtcc tttttctcct tgaggaggga aataaaaactg 5640
cggaatacaa tgtccttcca tagcatggga agaagaaaat aaacatctcc tttccaacaa 5700
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 5730

```

<210> 100

<211> 2545

<212> DNA

<213> NM_030882.2| Homo sapiens apolipoprotein L, 2 (APOL2), transcript variant alpha, mRNA

```

<400> 100
gtgctgggga gcagcgtgtt tactgtgctt ggtcatgagc tgctgggaag ttgtgacttt 60
cactttccct ttcgaattcc agggatatatc tgggaggccg gaggacgtgt ctgggtatta 120
cacagatgca cagctggacg tgggatccac acagctcaga acagttggat cttgctcagt 180
ctctgtcaga ggaagatccc ttggacaaga ggaccctgcc ttggtgtgag agtgagggaa 240
gaggaagctg gaacgagggt taaggaaaac cttccagtct ggacagtgac tggagagctc 300
caaggaaagc ccctcggtaa cccagccgct ggcaccatga acccagagag cagtatcttt 360
attgaggatt accttaagta tttccaggac caagtgagca gagagaatct gctacaactg 420
ctgactgatg atgaagcctg gaatggattc gtggctgctg ctgaactgcc cagggatgag 480
gcagatgagc tccgtaaagc tctgaacaag cttgcaagtc acatgggtcat gaaggacaaa 540
aaccgccacg ataaagacca gcagcacagg cagtggtttt tgaaagagtt tcctcggttg 600
aaaagggagc ttgaggatca cataaggaag ctccgtgccc ttgcagagga gggttgagcag 660
gtccacagag gcaccaccat tgccaatgtg gtgtccaact ctgttggcac tacctctggc 720
atcctgacct tcctcggcct gggctctggca cccttcacag aaggaatcag ttttgtgctc 780
ttggacactg gcatgggtct gggagcagca gctgctgtgg ctgggattac ctgcagtgtg 840
gtagaactag taaacaaatt gcgggcacga gcccaagccc gcaacttgga ccaaagcggc 900
accaatgtag caaagggtgat gaaggagttt gtgggtggga acacaccaa tgttcttacc 960
ttagttgaca attggtacca agtcacacaa gggattggga ggaacatccg tgccatcaga 1020
cgagccagag ccaaccctca gttaggagcg tatgccccac ccccgcatat cattgggcga 1080

```

```

atctcagctg aaggcgggtga acagggttgag aggggttggtg aaggccccgc ccaggcaatg 1140
agcagaggaa ccatgatcgt ggggtgcagcc actggaggca tcttgcttct gctggatgtg 1200
gtcagccttg catatgagtc aaagcacttg cttgaggggg caaagtcaga gtcagctgag 1260
gagctgaaga agcggggtca ggagctggag gggaagctca actttctcac caagatccat 1320
gagatgctgc agccaggcca agaccaatga cccagagca gtgcagccac cagggcagaa 1380
atgccgggca caggccagga caaaatgcag actttttttt tttttttttt ttttttttga 1440
gatggagtct cgctctatcg cccaggatgg agtgcagtgg ctcaatctcg gctcactgca 1500
aactccgcct cccgggttca caccattctc cggcctcagt ctcccagta gctgggacta 1560
caggcacctg ccaccacgcc cggctaattt ttttgatatt tccactggaga cggggtttca 1620
ctgtgttagc cacgatggtc tccatctcct gacctcgtga tctgcccacc tcggcctccc 1680
aaagtgtcgg gattacaggc gtgagccacc gcgcctggcc aaaatgcaga cattttatta 1740
gggggataag gagggcaagg taaagcttat ggaactgagt gttagtact ttggcatttg 1800
tgtagctgag cacagcaagg gaggggttaa tgcagatggc aagtgcacca aggagaaggc 1860
aggaacactg gagcctgcaa taaggaggga gagaggactg gagagtgtgg ggaatgggaa 1920
gaagtagttt actttggact aaagaatata ttgggcgaag aatagagggg gagcttgag 1980
gaaccagcaa tgagaaggcc aggaaaagaa agagctgaaa atggagaaaa ccagagttag 2040
aactgttgga tacaggagaa gaaacagcag ctccactacc gaccccccc caggtttgat 2100
gtccttccaa gaataaagtc tttccctggg gatgggtctt cgctctgtct ttccagcatc 2160
cactctccct tgtccttctg ggggtgtatc acagtcagcc agtggcttct tcatgatggt 2220
ggttgggggtg gttgtcatgt gacgggtccc ctccaggtta ctaaagggtg catgtcccct 2280
gcttgaaccc tgagaggcag gtggtaggcc atggccacaa tcccagctg aggagcaggt 2340
gtccctgaga acccaaactt cccagagagt atctgagaac caaccaatga aaacagtccc 2400
atcgctctta gccggtagt aaacagtcag aagattagca tgaaagcagt ttagcattgg 2460
gaggaagcac agatctctag agctgtcctg tcgctgcca ggattgacct gtgtgtaagt 2520
cccaataaac tcacctactc accaa 2545

```

<210> 101

<211> 1429

<212> DNA

<213> NM_016612.1| Homo sapiens mitochondrial solute carrier protein (MSCP), mRNA

<400> 101

```

ccccctcccc tcctgcagcc tcctgcgccc cgccgagctg gcggatggag ctgcgagcgc 60
ggagcgtggg cagccaggcg gtggcgcgga ggatggatgg ggacagccga gatggcggcg 120

```



```

gcggcaagga cgccaccggg tcggaggact acgagaacct gccgactagc gcctccgtgt 180
ccaccacat  gacagcagga gcgatggccg ggatcctgga gcactcggtc atgtaccg 240
tggaactcgt gaagacacga atgcagagtt tgagtccaga tcccaaagcc cagtacaca 300
gtatctacgg agccctcaag aaaatcatgc ggaccgaagg cttctggagg cccttgcgag 360
gcgtcaacgt catgatcatg ggtgcagggc cggcccatgc catgtatttt gcctgctatg 420
aaaacatgaa aaggacttta aatgacgttt tccaccacca aggaaacagc cacctagcca 480
acgggatagc tgggagtatg gccaccctgc tccacgatgc ggtaatgaat ccagcagaag 540
tgggtgaagca gcgcttgca g atgtacaact cgcagcaccg gtcagcaatc agctgcatcc 600
ggacgggtgtg gaggaccgag gggttggggg ctttctaccg gagctacacc acgcagctga 660
ccatgaacat ccccttccag tccatccact tcatcaccta tgagttcctg caggagcagg 720
tcaaccccc cggacctac aaccgcagc cccacatcat ctgaggcggg ctggccgggg 780
ccctcgccgc ggccgccacg acccccctgg acgtctgtaa gacccttctg aacactcagg 840
agaacgtggc cctctcgctg gccaacatca gcggccggct gtcgggtatg gccaatgcct 900
tccggacggt gtaccagctc aacggcctgc cggctacttc aaaggcatcc aggcgcgtgt 960
catctaccag atgccctcca ccgccatttc ttgggtctgtc tatgagttct tcaagtactt 1020
tctcaccaag cgccagctgg aaaatcgagc tccatactaa aggaagggat catagaatct 1080
tttcttaaag tcatttctctg cctgcatcca gcccttgcc ctctcctcac acgtagatca 1140
tttttttttt tgcagggtgc tgcctatggg cctctgctc cccaatgcct tagagagagg 1200
aggggacggc acggccgctc accggaaggc tgtgtgcggg gacatccgag gtggtggtgg 1260
acaggaagga cttgggaagg ggagcgagaa attgcttttt ctcttcctcc ctgggcagaa 1320
tgtagctttt ctgcttcact gtggcagcct cctccctgga tccttagatc ccagaggagg 1380
gaagaaaatt tgcagtgact gaaaacagta aaaaaaaaaa aaaaaaaaaa 1429

```

<210> 102

<211> 2368

<212> DNA

<213> NM_017903.2| Homo sapiens hypothetical protein FLJ20618 (FLJ20618), mRNA

```

<400> 102
ccacgcgtcc gaaaatgttt gaacaattgg atttcaaaca ttttcgtttt gtggagtgg 60
gctcaccaag tggtagagcc ctaagcaagt gaacacaaac acatttaagt gtattttgtc 120
tgattagatg ttagccagtt atgctatttc attcaaatgt ctgaaaaaat caattgacta 180
ttcccttttc ctaaagggca gagacagata atctcacttc cagagaaatg acttggagaa 240
aaaaaagtgt tggctttttt gctcttttgt aattaaatcc ggatgtacct caaaagactt 300
aagactgtgg tgataagatg ctttcctcag cagaaaggag ggaaaaaaaa acaactggaa 360

```

ctcaaagctt	gaaattctgt	ggcaaaacat	gagatgtcca	ggattggagg	ttgaaaagat	420
ttcactacag	tgttctgcaa	tagttggagc	agataacttt	cagtgtagcc	acagccatgg	480
actccagatt	tccagatttt	caagacctgg	acctggaacc	cgaaagagct	tgtcacgatg	540
cggcaggaac	actggaggta	gatttttttt	tattttttgaa	ttttgggact	gttgaccttg	600
ctgtgagaaa	agagacaacg	actgagcaag	cactaccacc	agcactgtta	ctgggaatta	660
gaagacctga	gtttctgtcc	agaccctcag	tgcaaactga	ggatgctcca	tccaaagtga	720
attatgtcct	gtgcctcctg	attgctgagt	gttcacctgg	accttctgac	taccttcctt	780
gtgctattcc	atcagcctac	agacctggtg	cctggatttt	tgcccgagat	gattcctacc	840
accttactac	tgacgaagac	acccattcca	gtggaccact	gtgaccagg	aggcattcag	900
ccatcatgat	gtggccttta	cctccactcc	tgtcttgttc	taccagatt	cagcacagcc	960
ctttatagt	aagtcagagt	cctcaagcca	aatagctaaa	gctgttttat	cacaacaaag	1020
gcctagtttg	ttccatgagt	gtgcatttca	tttcttcagt	taaagccttc	agagacacac	1080
aataaatttg	gaccagggga	tttttttagtt	attaatgctc	tctgaagaaa	ggcaacatct	1140
ttttgagagc	agcattggac	cacacccac	aatctcaa	gattgaaatt	catgaacatc	1200
taggatcccg	tgaaggctac	tggaccctgt	tttttctact	tcaa	atcctg	1260
ctgaatgaga	aaacatattc	tgaccattg	ggatcaa	atc	aaaggcacag	1320
atagcatctt	ctttggaatt	actcaggaac	cagaactttt	tacacaaatg	taagaaattc	1380
taccaaggag	tccccttacc	taacagcatc	tcacaaggct	gcaccagatt	ccagaaaagg	1440
cttctcttga	tacatcaagc	attttgtgac	cgacttattc	ttagatcatt	ggttttccaa	1500
aggctttgtg	gccatgaagc	cctttgagtg	aaaactgtgc	agaagcccag	agtaaaagt	1560
aagctgctct	ggatgaagta	gtgaagcaag	agtagggg	cc	tgaatcctgc	1620
ttcctttacc	accgtgggtg	cacctaagg	gacttcctta	caacaccttg	aactcttc	1680
aacacagttt	gaaaaccact	gccccagaca	gcaatatgtt	tgacctgaat	ggcattccaa	1740
tcttttctgt	acctccactc	agcacagt	atgttcagta	gatgctgaac	attcttagaa	1800
atactgtgtg	tgaacttaga	aaagtgaag	aagacaggca	tgtctttgac	cccaggaatg	1860
atcatttgct	gaagatggtg	tcaagtgaac	ctagattaac	agccctccac	tccagatgga	1920
tatccagtga	ttcctagaat	gggatatagc	cagagaacaa	ttctatgcac	cctacactga	1980
cagactccct	taagcaacac	cagatgctct	actggtactt	gaagtacatg	actttgaagt	2040
cttgaccctc	catgaatacc	tgaattatca	gcaagcgggt	tttgaagctg	gtgcctcatt	2100
gaggccatat	tagagcaact	tgtacatttg	acctcttg	at	cagccatg	2160
tcgtgtgcaa	gagataacta	tgaaagccaa	attcaaatac	tggcaacatt	tcctaaagg	2220
gctcaatatc	tatcattcgt	cttcttttcc	aaactacaca	tcactgtatg	actcaaccag	2280
tagcagttat	attgcccctt	ggtttttatt	cagtttaact	actgtttcca	agataaatga	2340

gctaataagc tttaaaaaaa aaaaaaaa

2368

<210> 103

<211> 2577

<212> DNA

<213> nm_003011.1 SET translocation (myeloid leukaemia-associated) Homo sapiens

<400> 103

cacatgtcgg	cgcaggcggc	caaagtcagt	aaaaaggagc	tcaactccaa	ccacgacggg	60
gccgacgaga	cctcagaaaa	agaacagcaa	gaagcgattg	aacacattga	tgaagtacaa	120
aatgaaatag	acagacttaa	tgaacaagcc	agtgaggaga	ttttgaaagt	agaacagaaa	180
tataacaaac	tccgccaacc	atTTTTTcag	aagaggctag	aattgatcgc	caaaatccca	240
aatttttggg	taacaacatt	tgtcaaccat	ccacaagtgt	ctgcaactgt	tggggaggaa	300
gatgaagagg	cactgcatta	tttgaccaga	gttgaagtga	cagaatttga	agatattaaa	360
tcaggttaca	gaatagattt	ttattttgat	gaaaatcctt	actttgaaa	taaagttctc	420
tccaaagaat	ttcatctgaa	tgagagtggg	gatccatcct	cgaagtccac	cgaaatcaaa	480
tggaaatctg	gaaaggattt	gacgaaacgt	tcgagtcaaa	cgcagaataa	agccagcagg	540
aagaggcagc	atgaggaacc	agagagcttc	tttacctggg	ttactgacca	ttctgatgca	600
gggtgctgatg	agttaggaga	ggatcatcaa	gatgatattt	ggccaaaccc	attacagtac	660
tacttggttc	ccgatatgga	tgatgaagaa	ggagaaggag	aagaagatga	tgatgatgat	720
gaagaggagg	aaggattaga	agatattgac	gaagaagggg	atgaggatga	aggtgaagaa	780
gatgaagatg	atgatgaagg	ggaggaagga	gaggaggatg	aaggagaaga	tgactaaata	840
gaacactgat	ggattccaac	cttccttttt	ttaaattttc	tccagtccct	gggagcaagt	900
tgcagtcttt	tttttttttt	tttttttttt	ccctcttggt	ctcagtcgcc	ctgttcttga	960
gggtctcttt	ctctactcca	tggttctcaa	tttatttggg	gggaaatacc	ttgagcagaa	1020
tacaatggga	aaagagtctc	tacccttttc	tggtcgaagt	tcatttttat	cccttcctgt	1080
ctgaacaaaa	actgtatgga	atcaacacca	ccgagctctg	tgggaaaaaa	gaaaaacctg	1140
ctccctttgc	tctgctggaa	gctggagggt	gctaggcccc	tgtgtagtag	tgtatagaat	1200
tctagctttt	ttcctccttt	ctctgtatat	tgggctcaga	gagtacactg	tgtctctatg	1260
tgaatatgga	cagttagcat	ttaccaacat	gtatctgtct	actttctctt	gttttaaaaa	1320
agaaaaaaaa	acttaaaaaa	atgggggttat	agaaggctcag	caaaggggtg	gggtttgaga	1380
tgtttgggtg	ggtttagtgg	cattttgaca	acatggcttc	tcctttggca	tgtttaattg	1440
tgatatttga	cagacatcct	tgcagtttaa	gatgacactt	ttaaaataaa	ttctctccta	1500
atgatgactt	gagccctgcc	actcaatggg	agaatcagca	gaacctgtag	gatcttattt	1560

```

ggaattgaca ttctctattg taatttttgtt cctgttttatt tttgggtttc tttttgtttc 1620
actggaaagg aaaga'tgatg ctcaagt'tta aacgttaaaa gtgtacaagt tgctttgtta 1680
caataaaact aaatgtgtac acaaaggatt tgatgctttt ctctcagcat aggtatgctt 1740
actatgacct tccaagtttg acttgataa catcactgtc aaactttgtc accctaactt 1800
cgtat'tttt gatacgcaact tttgcaggat gacctcaggg ctatgtggat tgagtaatgg 1860
gatttgaatc aatgtattaa tatctccata gctgggaaac gtgggttcaa tttgccattg 1920
gtttctgaaa agtattcaca tcatttggga taccagatag ctcaatactc tctgagtaca 1980
ttgtgccctt gat'tttt'atc tccaagtggc ag'tttt'aaa attggccttt tacctggata 2040
taaattaatt gtgcctgcc caaccatcca acagacctgg tgctcta'atg ccaagttata 2100
cacgggacag ttgctggcat gtcttcattg gctctctaaa atgtggccaa gaagataggc 2160
tctcagtaag aagtctgatg gtgagcagta actgtccctg c'ttct'ggta taaagctctc 2220
aaatgtgacc atgtgaatct ggg'tgggata atggactcag ctctgtctgc tcaatgccat 2280
tgtgcagaga agcaccctaa tgcataagct t'tt'aatgct g'taaa'atata gtcgctgaaa 2340
t'taaatgcc c'tttt'tcaga ggtgaattaa tggacagtct ggtgaacttc aaaagct'ttt 2400
tgatgtataa aacttgataa atggaactat tccatcaata ggcaaaagtg taacaaccta 2460
tctagatgga tagtatgtaa t'ttct'gcaca ggtctctgtt tagtaaatac atcactgtat 2520
accgatcagg aatcttgctc caataaagga acataaagat t'taaaaaaa aaaaaaa 2577

```

<210> 104

<211> 7577

<212> DNA

<213> XM_030577.9| PREDICTED: Homo sapiens ATPase, Class II, type 9A (ATP9A), mRNA

```

<400> 104
atgacggaca acatcccgtc gcagccgggtg cgccagaaga agcggatgga cagcaggccc 60
cgcgccgggt gctgcgagtg gctgagatgc tgcgggtggag gggaggccag gccccgcact 120
gtctggctgg ggcaccccgga gaagagagac cagaggtatc ctcggaatgt catcaacaat 180
cagaagtaca at'ttcttcac c'ttct'tcct ggggtgctgt tcaaccagtt caaatacttt 240
ttcaacctct at'ttcttact tcttgcctgc tctcagtttg t'tccc'gaaat gagacttgggt 300
gcactctata c'tact'gggt t'ccc'tgggc ttcgtgctgg ccgtcactgt catccgtgag 360
gcggtggagg agatccgatg ctacgtgcgg gacaaggaag tcaactccca ggtctacagc 420
cggctcacag cagcaggcac agtgaagggt aagagttcta acatccaagt tggagacctt 480
atcatcg'ttg aaaagaacca gcgggtccct gccgacatga tcttcctgag gacatcagaa 540
aaaaacgggt catgcttctt gcggacggat cagctggatg gggagacgga ctggaagctg 600

```

cggttcccg	tggcctgcac	gcagaggctc	cccacggccg	ccgaccttct	tcagattcga	660
tcgtatgtgt	acgcagaaga	gccaaatatt	gacattcaca	acttcgtggg	aacttttacc	720
cgagaagaca	gcgaccccc	gatcagcgag	agcctgagca	tagagaacac	gctgtgggct	780
ggcactgtgg	tcgcatcagg	tactgttggt	ggtgttggtc	tttactctgg	cagagaactc	840
cggagtgtca	tgaatacctc	aaatccccga	agtaagatcg	gcctgttcga	cttggaagtg	900
aactgcctca	ccaagatcct	ctttggtgcc	ctgggtgggtg	tctcgctggg	catgggtgcc	960
cttcagcact	ttgcaggccg	ttggtacctg	cagatcatcc	gcttcctcct	cttgttttcc	1020
aacatcatcc	ccattagttt	gcgtgtgaac	ctggacatgg	gcaagatcgt	gtacagctgg	1080
gtgattcga	gggactcgaa	aatccccggg	accgtgggtc	gctccagcac	gattcctgag	1140
cagctgggca	ggatttcgta	cttactcaca	gacaagacag	gcactcttac	ccagaacgag	1200
atgattttca	aacgggtcca	tctcggaaca	gtagcctacg	gcctcgactc	aatggacgaa	1260
gtacaaagcc	acattttcag	catttacacc	cagcaatccc	aggaccacc	ggctcagaag	1320
ggcccaacgc	tcaccactaa	ggtccggcgg	accatgagca	gccgcgtgca	cgaagccgtg	1380
aaggccatcg	cgctctgcca	caacgtgact	cccgtgtatg	agtccaacgg	tgtgactgat	1440
caggctgagg	ccgagaagca	gtacgaagac	tcctgccgcg	tataccaggc	atccagcccc	1500
gatgagggtg	ccctggtaca	gtggacggaa	agtgtgggct	taaccctggg	gggccgagac	1560
cagtcttcca	tgcagctgag	gacccttggc	gaccagatcc	tgaacttcac	catcctacag	1620
atcttccctt	tcacctatga	aagcaaacgt	atgggcatca	tcgtgcggga	tgaatcaact	1680
ggagaaatta	cgttttacat	gaagggagca	gatgtgggtca	tggctggcat	tgtgcagtac	1740
aatgactggg	tggaggaaga	gtgtggcaac	atggccccgag	aagggctgcg	ggtgctcgtg	1800
gtggcaaaga	agtctcttgc	agaggagcag	tatcaggact	ttgaagcccc	ctacgtccag	1860
gccaaagtga	gtgtgcacga	ccgtccctc	aaagtggcca	cggtgatcga	gagcctggag	1920
atggagatgg	aactgctgtg	cctgacgggc	gtggaggacc	agctgcaggc	agatgtgcgg	1980
cccacgctgg	agaccctgag	gaatgctggc	atcaaggttt	ggatgctgac	aggggacaag	2040
ctggagacag	ctacgtgcac	agcgaagaat	gcacatctgg	tgaccagaaa	ccaagacatc	2100
cacgtttttc	ggctggtgac	caaccgcggg	gaggctcacc	tcgagctgaa	cgcttccgc	2160
aggaagcatg	attgtgccct	ggtcatctcg	ggagactccc	tggaggtttg	cctcaagtac	2220
tatgagtacg	agttcatgga	gctggcctgc	cagtgcccg	ccgtagtctg	ctgccgatgt	2280
gccccaccc	agaaggccca	gatcgtgcgc	ctgcttcagg	agcgcacggg	caagctcacc	2340
tgtgcagtag	gggacggagg	caatgacgtc	agcatgattc	aggaatctga	ctgcggcgtg	2400
ggagtggaag	gaaaggaagg	aaaacaggct	tcgttggtg	cagacttctc	catcactcaa	2460
tttaagcatc	ttggccggtt	gcttatggtg	catggccgga	acagctacaa	gcggtcagcc	2520
gccctcagcc	agttcgtgat	tcacaggagc	ctctgtatca	gcaccatgca	ggctgtcttt	2580
tcctccgtgt	tttactttgc	ctccgtccct	ctctatcaag	gattcctcat	cattgggtac	2640

tccacaat	ttt acaccatg	ttt tcctgtgt	ttt tctctgg	tcc tggacaa	aga tgtcaa	atcg	2700
gaagttg	cca tgctgt	atcc tgagct	tctac aaggat	ccttc tcaagg	ggacg gccgt	tgtcc	2760
tacaag	acat tctta	atag ggtttt	gatt agcat	ctatc aagg	gagcac catcat	gtac	2820
ggggc	gctgc tgctgt	tttga gtcgg	agttc gtgcac	atcg tggcc	atctc cttcac	ctcg	2880
ctgat	cctca ccgag	ctgct catgg	tggcg ctgacc	atcc agacct	ggca ctgg	ctcatg	2940
acagt	ggcgg agctg	ctcag cctgg	cctgc tacat	cgcct ccctg	gtgtt cttac	acgag	3000
ttcat	cgatg tgtact	ttcat cgccac	ccttg tcatt	ccttg gttaa	gtctc cgtc	catcact	3060
ctggt	cagct gcctc	ccccct ctatg	tcctc aagtac	ctgc gaagac	gggtt ctctc	cccccc	3120
agctac	tcaa agctca	catc atag	gccgtg cgttc	gctgg agggg	gccct ggtct	tggcg	3180
cttc	cctgat ggac	agagct caagt	ttccat ttata	ttaac cgccac	cctgt ggatt	tttgca	3240
gtaatt	gcta acac	atgcag tttta	atggg aagt	ggctct gcgc	cctaaac ggag	tcctaa	3300
cgctg	catca acggg	agggga ggg	tcctgaa agag	acccat ctggg	cctgt ctga	acccct	3360
cgttc	ttcat gtttag	gtga atatat	gttaa agctg	gtggc	tcagc tggg	agattt	3420
atatg	gggtca ctgtg	cgcagc ttcct	tatga cttga	atttt gttgt	cacat gataa	aaagtt	3480
tctgt	gtagc tgaag	gttgtt aga	aggcctt gtgtg	tgtgt	tgtgt	tgtgt	3540
tgtgt	gtttt taaag	agtcc taatg	tgtat gtact	ccttt tgtc	tttctt	gctct	3600
agagg	gttca gaaaa	ataga aagct	ccttg gtgtc	ggttt ggagg	aaaag acagt	gacat	3660
ttgg	taaaaa gttat	ccaca caata	atctc cattc	cgaaa tgctc	agtat cgtct	ccagc	3720
cagcc	ctgct tatcc	aggtt aactg	gatt cctgg	gatcg taacc	agtaa atgag	aggag	3780
aggg	agagag agtgt	cctaa gtcca	atctg ttatc	cctga tctg	attcag catcc	atagt	3840
gtgtg	agtta acttc	acctg ccacct	cgta aaaga	atttc agagg	tgtga tccc	gcttta	3900
ttggg	acctg gtaac	aatca caaag	ccagt ggctg	tttga gaagg	acctc agac	attttc	3960
agcag	agttg ttttag	cagg aaacg	tgcc ctga	atggcc cctaa	atgtg tcgac	agtgt	4020
gataa	agagac tcaac	taatt ctttag	gcaa catgg	cagat gtgac	tcaga tcctc	caaga	4080
ccaa	gcgga aaggt	caggg ggctg	gggact cttct	ccttc ataga	agcct gtttc	cctg	4140
aggag	gcata atgga	agatg acccc	acaaa ggcag	aggca tcttc	cgaa caac	actg	4200
ggcag	ctttc aga	acaagga accc	ctggtg ggagg	acgcc caag	ctacag cg	tgggat	4260
tggg	atctgt tccact	gccg gcag	atttca aggg	gaactt gctga	aaaggc agcc	agtgt	4320
gaag	atttct cccct	cccag gatg	gactac atgcc	ggcat gtttc	ttata aag	ctgtg	4380
tgctt	gtttc agagg	aaggg agttt	gcagt cg	gggacgt ggtag	agcaa ggc	attc	4440
ggttt	tcaag ttgct	tcttg caga	agccac atat	gcatgc cata	aagggtt aag	ttggtg	4500
atctt	taaga gcc	aagtgt gttg	agatct tgg	atttgcg tttac	ttctt gat	gaata	4560
tatc	cttcaa acc	ctctg cc	tggcg	ctact tctgt	gtgct tcag	agatgt	4620
					acac	acagc	

ctggtttctg	atgcctacta	actcctgctc	ttggagagct	ggagacacga	ggatcagata	4680
gtcccttgcc	tttggagcac	tcttgataag	cttttgtatt	ttgtgttgtc	cttttaaaat	4740
gttctagaat	gactttacgt	tgcaggctact	ggttaattgg	ctgttgacac	cacatctatt	4800
ttgtcttatg	attctgcagt	tttgcagtac	ttttctctat	ctgattcagc	catttctgcc	4860
agagggaaaa	ggtcggcaga	aaagatgtat	tgagtgaata	gttaaggata	ggatctttgt	4920
ccaaaaattt	cagaaagatt	gagcaaactt	gacgtattca	ttgagtgagt	ttctgtgttt	4980
tcaaagggtg	aggagaaatt	tgtgctggaa	gtttttaagc	ctccgttttc	ttggaaatca	5040
gtctgtaaca	ctggcaagtc	ttaagatagt	cccatttaga	ctttgcagat	gctgaacctg	5100
gctctgtaac	gctgggaagt	cttaagatag	tcctgttttag	actttgcaa	ccctgtacct	5160
ggctttgctc	ggagattcgg	gatgctggct	cctgcaggca	gggcgtgtgg	gagcctcgtc	5220
agaaagtttt	agaggtttcc	agcagaagca	gaatgaagat	ggctctccctg	gccttttcct	5280
taattctcaa	ttttgattga	ggtgcacaag	ttgactttta	aagccaacgc	ttaagatact	5340
gattgacatc	ttcaagggag	aatgctccca	ggaggggctg	aagaagccat	agttggaagt	5400
ggaaggctact	cgtcagtgtt	ctccacaaac	ctttttactc	tgttgctctca	gccgcactgg	5460
ggcggaggcg	gtcaaggggtg	agaagtaccg	acactcaagt	gcaaactgcc	acgtcgttgg	5520
cccatcccat	cagtgggcag	ctggctgacg	ccattcactg	gacggtcctt	gaacacctag	5580
gaatgcacac	accgtgcttc	tcagacactg	gagacgcaaa	ggcaggagga	tgcagtccgg	5640
tgagaggaca	cgatctttac	ctgcacaatc	agactgtaag	cccagcagag	aaccccaggg	5700
gcgcctgggt	acttctcgga	ggtcatctta	gttggtgggtg	ggaagacaaa	gaaataagca	5760
aacaagaaac	tagagttact	atacaagaaa	ctctcctgag	tttgtaaacc	ttaagcataa	5820
ggattcagtt	gacctttttc	ttggttcatc	aatctggaaa	gaacttacat	aaagcgccat	5880
tgacactgtc	acctgggagc	tccatgggccc	gtaagtcttt	gacagccaat	ttaatttgag	5940
gtcagagggc	cttgagggtac	acagtcagca	ctgtttgaac	acttttcctg	aaagcaaaac	6000
tcacagctcc	ctgcgccctc	tgacaacact	agctatttct	gccagagtaa	gaacttctat	6060
tactattttta	ttattgttca	tatgtctttt	gatgatgggt	gtgtgacagg	gggaagcagg	6120
atctattttg	tttcttcccc	tccccccacc	ccttcctttt	tgtctctctt	tttttttctc	6180
taagaaaatc	accagactag	tttttccatc	ttgagtaatt	tcttatgtgg	gacagttttg	6240
atcctcatit	tgaaagcatg	cgtgtgcaca	tgtgtgttgc	ctgtggtgcc	aggtgagaca	6300
gggtggcacta	actccagctg	cttgggaaggc	atcccaagg	cgcatcttaa	agttggagca	6360
gacctccctt	ttccagcccc	tggggccatt	agaccacgtg	ctggaactag	cattgtaaaa	6420
ttcccatccc	agttccactc	ccctgaagtg	aaaccctttt	ttttttgtga	cagtaaactct	6480
taaaaatcat	tgtctcttta	tgaacatttc	ctcagtttct	tctctgctga	aaatgtaagc	6540
catgctactt	tttaatgtat	tttgaatttt	gtgctcattg	gaaattgata	tgctaatagcc	6600
tccccacccc	cccggccagac	ttttcttttt	atactttgtc	ttgttttttac	tggggtaggc	6660

```

tgggcatgcg tgcgtgcctt tagggcagca ttttaaacct ttgccaaaat tgcaaatggg 6720
acatgtacat tcttctgctc catcctactt aaacacctat cagctatttt tatctttaac 6780
cttttctgta tgtttgaagt gtgtgggggg tgtgtgtgtg tgtgaaagag cgagagaatg 6840
atgtcatcta aagttttttg aagaattatt tggttttcat tgcattaaaa ttctatcact 6900
cccagctttg ttttcattta aaaaaatata caaagagctt tgtaaataca acacatttta 6960
tttctcccc ttcttttaat gtacagcttt tttgccactt atatatactt aaaatattcc 7020
catgaattat gtccagttct tcttgaaaa aaatttggtt ttgaatgaac ctgcaaagca 7080
tcctgcagcg tgagcagctc ctccacctgg agctccgaag catcttctca ggccaaagcg 7140
gcattacccg tgaatctgtc ttctccgcca cagcatgggt tgaggcgagc tctgttaata 7200
tagctgggccc atgtcagtga ctgttgtgtt tgtgggggtca ggtggggggc atggtatttg 7260
caaaaaaac aaattatggc taatttatta ttttgttgca gtgggggtta ctgtaaactc 7320
atgtaagagt ctgtgatttc ctcatgggt gatctctctc tctgtaatcc tcattgcaaa 7380
tttccaccag gacagcgttt tttgattaga ggggagctct ggcacagtat gctttaattt 7440
agcaggaact tccagatgat ttaaattctc gatgctgtga tgacacacat atgatctttc 7500
gtgtttctga gcgactctac tttcattggt tgccagcgtg gctcgttgct gttgcccaat 7560
aaagcttggtg tacgttc 7577

```

<210> 105

<211> 1672

<212> DNA

<213> NM_004503.2| Homo sapiens homeo box C6 (HOXC6), transcript variant 1, mRNA

```

<400> 105
ttttgtctgt cctggattgg agccgtccct ataaccatct agttccgagt acaaactgga 60
gacagaaata aatattaaag aaatcataga ccgaccaggt aaaggcaaag ggatgaattc 120
ctacttcact aacccttcct tatcctgcca cctcgccggg ggccaggacg tcctcccaa 180
cgtcgccctc aattccaccg cctatgatcc agtgaggcat ttctcgacct atggagcggc 240
cgttgcccag aaccggatct actcgactcc cttttattcg ccacaggaga atgtcgtgtt 300
cagttccagc cggggggccgt atgactatgg atctaattcc ttttaccagg agaaagacat 360
gctctcaaac tgcagacaaa acaccttagg acataacaca cagacctcaa tcgctcagga 420
ttttagttct gagcagggca ggactgcgcc ccaggaccag aaagccagta tccagattta 480
cccctggatg cagcgaatga attcgacag tggggtcggc tacggagcgg accggaggcg 540
cggccgccag atctactcgc ggtaccagac cctggaactg gagaaggaat ttcacttcaa 600
tcgctaccta acgcggcgcc ggcgcacga gatcgccaac gcgctttgcc tgaccgagcg 660

```



```

acagatcaaa atctggttcc agaaccgccg gatgaagtgg aaaaaagaat ctaatctcac      720
atccactctc tcggggggcg gcggaggggc caccgccgac agcctgggcg gaaaagagga      780
aaagcgggaa gagacagaag aggagaagca gaaagagtga ccaggactgt cctgccacc      840
cctctctccc tttctccctc gctccccacc aactctcccc taatcacaca ctctgtattt      900
atcactggca caattgatgt gttttgattc ctaaaaacaa aattagggag tcaaacgtgg      960
acctgaaagt cagctctgga cccctccct caccgcacaa ctctctttca ccacgcgcct    1020
cctcctctc gctcccttgc tagctcggtc tcggcttgct tacaggccct tttccccgtc    1080
caggccttgg gggctcggac cctgaactca gactctacag attgccctcc aagtgaggac    1140
ttggctcccc cactccttcg acgccccac ccccgcccc cgtgcagaga gccggctcct    1200
gggcctgctg gggcctctgc tccagggcct cagggcccg cctggcagcc ggggagggcc    1260
ggaggcccaa ggaggcgcg ccttggcccc acaccaaccc ccagggcctc cccgcagtcc    1320
ctgcctagcc cctctgcccc agcaaagtcc cagcccaggc aaattgtatt taaagaatcc    1380
tgggggctcat tatggcattt tacaaactgt gaccgtttct gtgtgaagat ttttagctgt    1440
atgtgtggtc tctgtattta tatttatgtt tagcaccgtc agtggtccta tccaatttca    1500
aaaaaggaaa aaaaagaggg aaaattacaa aaagagagaa aaaaagtga tgacgtttgt    1560
ttagccagta ggagaaaata aataaataaa taaatccctt cgtgttacc tcctgtataa    1620
atccaacctc tgggtccggt ctcgaatatt taataaaact gatattattt tt              1672

```

<210> 106

<211> 3394

<212> DNA

<213> NM_004764.2| Homo sapiens piwi-like 1 (Drosophila) (PIWIL1), mRNA

```

<400> 106
gttggcctcg ggctgagggt caaggaccag gactagggcg agggcagcgg tccaagaaat      60
agaaaacaat gactgggaga gcccagacca gagccagagg aagggcccg ggtcaggaga    120
cagcgcagct ggtgggctcc actgccagtc agcaacctgg ttatattcag cctaggcctc    180
agccgccacc agcagagggg gaattatttg gccgtggacg gcagagagga acagcaggag    240
gaacagccaa gtcacaagga ctccagatat ctgctggatt tcaggagtta tcgttagcag    300
agagaggagg tcgtcgtaga gattttcatg atcttggtgt gaatacaagg cagaacctag    360
accatgttaa agaatcaaaa acaggttctt caggcattat agtaaggtta agcactaacc    420
atttccggct gacatcccg cccagtggg ctttatatca gtatcacatt gactataacc    480
cactgatgga agccagaaga ctccgttcag ctcttctttt tcaacacgaa gatctaattg    540
gaaagtgtca tgcttttgat ggaacgatat tatttttacc taaaagacta cagcaaaagg    600

```

ttactgaagt ttttagtaag acccggaatg gagaggatgt gaggataacg atcacttttaa	660
caaatgaact tccacctaca tcaccaactt gtttgcagtt ctataatatt attttcagga	720
ggcttttgaa aatcatgaat ttgcaacaaa ttggacgaaa ttattataac ccaaatgacc	780
caattgatat tccaagtcac aggttggtga tttggcctgg cttcactact tccatccttc	840
agtatgaaaa cagcatcatg ctctgcaactg acgttagcca taaagtcctt cgaagtgaga	900
ctgttttgga tttcatgttc aactttttatc atcagacaga agaacataaa tttcaagaac	960
aagtttccaa agaactaata ggttttagttg ttcttaccaa gtataacaat aagacataca	1020
gagtggatga tattgactgg gaccagaatc ccaagagcac ctttaagaaa gccgacggct	1080
ctgaagtcag cttcttagaa tactacagga agcaatacaa ccaagagatc accgacttga	1140
agcagcctgt cttggtcagc cagcccaaga gaaggcgggg ccctgggggg aactgccag	1200
ggcctgccat gctcattcct gagctctgct atcttacagg tctaactgat aaaatgcgta	1260
atgattttta cgtgatgaaa gacttagccg ttcatacaag actaactcca gagcaaaggc	1320
agcgtgaagt gggacgactc attgattaca ttcataaaaa cgataatgtt caaagggagc	1380
ttcagactg gggtttgagc tttgattcca acttactgtc cttctcagga agaattttgc	1440
aaacagaaaa gattcaccaa ggtggaaaaa catttgatta caatccacaa tttgcagatt	1500
ggtccaaaga aacaagaggt gcaccattaa ttagtgttta tccactagat aactggctgt	1560
tgatctatac gcgaagaaat tatgaagcag ccaattcatt gatacaaaat ctatttaaag	1620
ttacaccagc catgggcatg caaatgaaaa aagcaataat gattgaagtg gatgacagaa	1680
ctgaagccta cttaaagagtc ttacagcaaa aggtcacagc agacaccag atagttgtct	1740
gtctgttgtc aagtaatcgg aaggacaaat acgatgctat taaaaaatac ccgtgtacag	1800
attgccctac cccaagtcag tgtgtggtgg cccgaacctt aggcaaacag caaactgtca	1860
tggccattgc tacaagatt gccctacaga tgaactgcaa gatgggagga gagctctgga	1920
gggtggacat ccccctgaag ctcgtgatga tcgttggtcat cgattgttac catgacatga	1980
cagctgggag gaggtcaatc gcaggatttg ttgccagcat caatgaaggg atgacccgct	2040
ggttctcacg ctgcatatct caggatagag gacaggagct ggtagatggg ctcaaagtct	2100
gcctgcaagc ggctctgagg gcttggaata gctgcaatga gtacatgcc agccggatca	2160
tcgtgtaccg cgatggcgta ggagacggcc agctgaaaac actggtgaac tacgaagtgc	2220
cacagttttt ggattgtcta aaatccattg gtagaggtta caaccctaga ctaacggtaa	2280
ttgtggtgaa gaaaagagtg aacaccagat tttttgctca gtctggagga agacttcaga	2340
atccacttcc tggaacagtt attgatgtag aggttaccag accagaatgg tatgactttt	2400
ttatcgtgag ccaggctgtg agaagtggta gtgtttctcc cacacattac aatgtcatct	2460
atgacaacag cggcctgaag ccagaccaca tacagcgctt gacctacaag ctgtgccaca	2520
tctattacaa ctggccagggt gtcattcgtg ttcctgctcc ttgccagtac gcccacaagc	2580
tggcttttct tgttggccag agtattcaca gagagccaaa tctgtcactg tcaaaccgcc	2640

```

tttactacct ctaacctgca gaagacgatg cagccgcttt tctttttgaa atgacttttg 2700
gattttttta agcttttatt tacttttttt ttaactgtta tctttctgga tgaaacttgg 2760
gaaggggatt aggagatcta gcattttatt tctagcattg ctattcaccg gcttccttat 2820
tttatacgta aaaattaaga ttttatattht tatcttcttg tttctcatag atattttgtg 2880
agcatttttt tgttttattht gaagaaatgt ggataagata cttggtagta taaaacagac 2940
tctctgagag tatttgaaat gtgttttgag atttacttaa acgtactttc aggagtgagc 3000
aagtcctact tataaaccta tattaacttht atttttgaga tacctgtttt gaatttaaag 3060
gagataagag gcgtaaagta ggatgctcac tacaaccata ggtggggttt cagctcatat 3120
cttaaagata aaaggacta ttatataacc tatacacaag atacaggaga aaatatgctt 3180
gattttttatt tggcaggggg gctagggttg atgggagtaa aaaaaacatt gaaaattttt 3240
aaattgtcca aagaaacatt ttaagactct ttaacaaaaa aggccatgag taaatctcta 3300
tattaacatt actatttatt ttgttttgga actgggacat gattctattht gttataaaat 3360
aaaattgatg tgattgtcaa aaaaaaaaaa aaaa 3394

```

<210> 107

<211> 2524

<212> DNA

<213> NM_000249.2| Homo sapiens mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) (MLH1), mRNA

```

<400> 107
attggctgaa ggcacttccg ttgagcatct agacgtttcc ttggctcttc tggcgccaaa 60
atgtcgttcg tggcaggggt tattcggcgg ctggacgaga cagtgggtgaa ccgcatcgcg 120
gcgggggaag ttatccagcg gccagctaatt gctatcaaag agatgattga gaactgttta 180
gatgcaaaat ccacaagtat tcaagtgatt gttaaagagg gaggcctgaa gttgattcag 240
atccaagaca atggcaccgg gatcaggaaa gaagatctgg atattgtatg tgaaagggtc 300
actactagta aactgcagtc ctttgaggat ttagccagta tttctaccta tggctttcga 360
ggtgaggctt tggccagcat aagccatgtg gctcatgtta ctattacaac gaaaacagct 420
gatggaaaag gtgcatacag agcaagttac tcagatggaa aactgaaagc ccttcctaaa 480
ccatgtgctg gcaatcaagg gaccagatc acgggtggagg acctttttta caacatagcc 540
acgaggagaa aagcttttaa aaatccaagt gaagaatatg ggaaaatttt ggaagtgtgt 600
ggcaggtatt cagtacacaa tgcaggcatt agtttctcag ttaaaaaaca aggagagaca 660
gtagctgatg ttaggacact acccaatgcc tcaaccgtgg acaatattcg ctccatcttt 720
ggaaatgctg ttagtcgaga actgatagaa attggatgtg aggataaaac cctagccttc 780
aaaatgaatg gttacatatc caatgcaaac tactcagtga agaagtgcatt cttcttactc 840

```

```

ttcatcaacc atcgtctggt agaatcaact tccttgagaa aagccataga aacagtgtat    900
gcagcctatt tgcccaaaaa cacacacca ttctgttacc tcagtttaga aatcagtccc    960
cagaatgtgg atgttaatgt gcacccaca aagcatgaag ttcacttcct gcacgaggag   1020
agcatcctgg agcgggtgca gcagcacatc gagagcaagc tcctgggctc caattcctcc   1080
aggatgtact tcacccagac ttgtctacca ggacttgctg gcccctctgg ggagatggtt   1140
aaatccacaa caagtctgac ctcgtcttct acttctggaa gtagtgataa ggtctatgcc   1200
caccagatgg ttcgtacaga ttcccgggaa cagaagcttg atgcatttct gcagcctctg   1260
agcaaaccce tgtccagtca gcccaggcc attgtcacag aggataagac agatatttct   1320
agtggcaggg ctaggcagca agatgaggag atgcttgaac tcccagcccc tgctgaagtg   1380
gctgccaaaa atcagagctt ggagggggat acaacaaagg ggacttcaga aatgtcagag   1440
aagagaggac ctacttccag caaccacaga aagagacatc gggaagattc tgatgtggaa   1500
atggttgaag atgattcccg aaaggaaatg actgcagctt gtaccccccg gagaaggatc   1560
attaacctca ctagtgtttt gagtctccag gaagaaatta atgagcaggg acatgagggt   1620
ctccgggaga tgttgcataa ccactccttc gtgggctgtg tgaatcctca gtgggccttg   1680
gcacagcatc aaaccaagtt ataccttctc aacaccacca agcttagtga agaactgttc   1740
taccagatac tcatttatga ttttgccaat tttggtgttc tcaggttatc ggagccagca   1800
ccgctctttg accttgccat gcttgccctt gatagtcag agagtggctg gacagaggaa   1860
gatggtccca aagaaggact tgctgaatac attgttgagt ttctgaagaa gaaggctgag   1920
atgcttgagc actatttctc tttggaaatt gatgaggaag ggaacctgat tggattaccc   1980
cttctgattg acaactatgt gcccctttg gagggactgc ctatcttcat tcttcgacta   2040
gccactgagg tgaattggga cgaagaaaag gaatgttttg aaagcctcag taaagaatgc   2100
gctatgttct attccatccg gaagcagtac atatctgagg agtcgaccct ctcaggccag   2160
cagagtgaag tgcctggctc cattccaaac tcctggaagt ggactgtgga acacattgtc   2220
tataaagcct tgcgctcaca cattctgcct cctaaacatt tcacagaaga tggaaatatc   2280
ctgcagcttg ctaacctgcc tgatctatac aaagtctttg agagggtgtta aatatggtta   2340
tttatgcact gtgggatgtg ttcttctttc tctgtattcc gatacaaagt gttgtatcaa   2400
agtgtgatat acaaagtgtg ccaacataag tgttggtagc acttaagact tatacttgcc   2460
ttctgatagt attcctttat acacagtgga ttgattataa ataaatagat gtgtcttaac   2520
ataa

```

<210> 108

<211> 2928

<212> DNA

<213> NM_001313.2| Homo sapiens collapsin response mediator protein 1 (CRMP1), mRNA

```

<400> 108
ccgatccggg cggtgctggc agccggagcg gcggcgggcg ggccgagcag ccggggcagc      60
cgcgcgtggg catccacggg cgccgagcct ccgtccgtgt ctctatccct cccgggcctt      120
tgtcagcgcg cccgctggga gcggggccga gagcgccggt tccagtcaga cagccccgca      180
ggtcagcggc cgggccgagg gcgccagagg gggccatgtc gtaccagggc aagaagagca      240
tcccgcacat cacgagtgac cgactcctca tcaaaggtgg acggatcatc aacgatgacc      300
aatcccttta tgctgacgtc tacctggagg atggacttat caaacaataa ggagagaact      360
taatcgttcc tgggtggagt aagaccattg aagccaacgg gcggatgggt attcccggag      420
gtattgatgt caacacgtac ctgcagaagc cctcccaggg gatgactgcg gctgatgact      480
tcttccaagg gaccagggcg gcactggtgg gcgggaccac gatgatcatt gaccatgttg      540
ttcctgaacc tgggtccagc ctactgacct ctttcgagaa gtggcacgaa gcagctgaca      600
ccaaatcctg ctgtgattac tccctccacg tggacatcac aagctggtac gatggcgctc      660
gggaggagct ggagggtgct gtgcaggaca aaggcgtcaa ttccttccaa gtctacatgg      720
cctataagga tgtctaccaa atgtccgaca gccagctcta tgaagccttt accttcctta      780
agggcctggg agctgtgatc ttggtccatg cagaaaatgg agatttgata gctcaggaac      840
aaaagcggat cctggagatg ggcatacagg gtcccagggg ccatgccctg agcagacctg      900
aagagctgga ggccgaggcg gtgttccggg ccatcaccat tgcgggccgg atcaactgcc      960
ctgtgtacat caccaagggt atgagcaaga gtgcagccga catcatcgct ctggccagga     1020
agaaagggcc cctagttttt ggagagccca ttgccgccag cctggggacc gatggcaccc     1080
attactggag caagaactgg gccaaggctg cggcggttcgt gacttcccct cccctgagcc     1140
cggaccctac cacgcccgac tacttgacct ccctactggc ctgtggggac ttgcaggtca     1200
caggcagcgg cactgtccc tacagcactg ccagaaggc ggtgggcaag gacaacttta     1260
ccctgatccc cgagggtgtc aacgggatag aggagcggat gacggtcgtc tgggacaagg     1320
cggtaggtac tggcaaaatg gatgagaacc agtttgtcgc tgtcaccagc accaatgcag     1380
ccaagatctt taacctgtac ccaaggaaag ggcggattgc cgtgggctcg gatgccgacg     1440
tgggtcatctg ggaccccgc aagttgaaga ccataacagc caaaagtcac aagtcggcgg     1500
tggagtacaa catcttcgag ggtatggagt gccacggctc ccactagtg gtcacagcc     1560
agggcaagat cgtctttgaa gacggaaaca tcaacgtcaa caagggcatg ggccgcttca     1620
ttccgcggaa ggcgttcccc gagcacctgt accagcgcgt caaaatcagg aataaggttt     1680
ttggattgca aggggtttcc aggggcatgt atgacgggtc tgtgtacgag gtaccagcta     1740
cacccaaata tgcaactccc gtccttcag ccaaactctt gccttctaaa caccagcccc     1800
cacccatcag aaacctccac cagtccaact tcagcttatc aggtgcccag atagatgaca     1860

```

```

acaatcccag gcgcacccggc caccgcatcg tggcgccccc tgggtggccgc tccaacatca 1920
ccagcctcgg ttgaacgtgg atgcgcggag gagctagcct gaaggattct gggaatcatg 1980
tccatccctt ttcctgtcag tgtttttgaa acccacagtt ttagttgggtg ctgatggagg 2040
gagggggaag tcgaaggatg ctctttccct tttctgttta ggaagaagtg gtactagtgt 2100
ggtgtgtttg cttggaaatt cttgccccca cagttgtgtt catgctgaat ccacctcgga 2160
gcatgggtgtt ttcattcccc ctctctagt g aaccacaggt tttagcattg tcttgttctg 2220
tcccttccac ttctaactcc actggctcca tgattctctg agtggtggtt cctttgcacc 2280
ctgtagatgt tctaggatag ttgatgcatg ttactaaatt acgtatgcaa gtctgtgagt 2340
gcgtctgagg ggacatcgcc aaggactgac tgagacacga tgccgagacc tcaagccctg 2400
aggggagtc ccaaaacctt tacagtgaag atgtttactc attgccccca cctctggtcc 2460
acactagaaa gaagctcgcc ccacctccac ctgtgagatc cgtgaattct cggaatggca 2520
ggggaagcct tgcactaggt tgcagagaag catcctccac atcctgtgtc agaaaccctg 2580
gtctccgtgg cacttgtaac tcaccgtgct gtcttctggt ctgtgtgtgt tcttcaagcc 2640
agctctaggc ttcaggccga gccaggttca cactcagaaa gaggtctccc catccccatt 2700
cggggctgac gatggggggc tgatggctgc ccctgcgtgg cctgagtcct ggtccctctg 2760
aggcagttga cggggcagtc agatttttta agttttgtac aaagttttcc tttgtaatca 2820
ctccattttt tacttaacaa ccaacttggt gtggctctta tttctgaatt caaagcttgt 2880
gaaaaaataa agaaaatgaa ctgcccactg aaaaaaaaaa aaaaaaaa 2928

```

<210> 109

<211> 1609

<212> DNA

<213> NM_002145.2| Homo sapiens homeo box B2 (HOXB2), mRNA

```

<400> 109
atctccccct cccaaaatcg ctccattaca taaatcgggg ggggtgcagg aggggggggtc 60
ccttccgata ctccctcctg acgccccccc cagcagcccc ctccccacc attgaaagcc 120
atgaattttg aatttgagag ggagattggg tttataaaca gccagccgtc gctcgccgag 180
tgtctgactt ctttccccgc tgtcttggag acatttcaaa cttcatcaat caaggagtcg 240
acattaattc ctctctctcc tcttttcgag caaaccttcc ccagcctcca gcccggcgcc 300
tccacccttc agagaccag gagccaaaag cgagccgaag atgggcctgc tctgccgccg 360
ccaccgccgc cgccactccc cgctgcccc ccggccccc agttcccttg gatgaaagag 420
aagaaatccg ccaagaaacc cagccaatcc gccacgtctc cttctccggc cgcctccgcc 480
gttccggcct ccgggggtcgg atcgccctga gatggcctgg gactgccgga ggctgggtggc 540

```

```

ggcggggcg gcaggctg cg caccggcttac accaaccacgc agctgctgga actggagaag 600
gaattcca ct ttaataagta cctgtgccgg ccacgccgcg tcgagatcgc ggccttgctg 660
gacctcac cg aaaggcaggt caaagtctgg ttccagaacc ggcgcattgaa gcacaagcgg 720
cagacgcagc accgagagcc gccggatggg gagcctgcct gcccgggagc cctggaggac 780
atctgcga cc ctgccgagga acccgcgggc agcccgggcg gccctccgc ctcgcgggcg 840
gcgtggga ag cctgctgtca cccgccggag gtgggtgccg gggccttaag cgcggaaccc 900
cggccttt ag ccgttcgctt agagggcgca ggcgcgtcga gtcccggctg cgcgctgcgc 960
ggggccgg cg ggctggagcc cgggccattg ccagaagacg tcttctcggg gcgccaggat 1020
tcaccttt cc ttcccgcct caacttcttc gcggccgact cctgtctcca gctatccgga 1080
ggcctctc cc ctagcctaca gggttctctc gacagcccgg tccctttttc cgaggaagag 1140
ctggattttt tcaccagtac gctctgtgcc atcgacctgc agtttcccta acctgtttcc 1200
tcctcccgg t ctttcgacc cccgcgctcc ttggccgtct actggaaaaa tcgagcctct 1260
cccacctc ca gtcgcataga cttatgtgtt ttgctaaaat tcaggtatta ctgaattagc 1320
gtttaatc ca cttcctttct tcttcttcta aaatattggg cactcgggta tcttttaaaa 1380
ttcacacag aaaaattccgt ttggtagact ctttccaatg aaatctcagg aataattaaa 1440
ctctaggggg actttcttaa aaataactag agggacctat tttcctcttt tttatgtttt 1500
agactgtag a ttatttatta aaattcttta ataataggaa aaggggaaaag tattttattgt 1560
acattatttt catagattaa ataaatgtct ttataatacc aaaaaaaaaa 1609

```

<210> 110

<211> 3 262

<212> DNA

<213> NM_002860.2| Homo sapiens aldehyde dehydrogenase 18 family, member A1 (PYCS/ALDH18A1), mRNA

```

<400> 110
agggggcgaa ggcggcggtg gtgaggaaga tactttgggt agtgaccaca tcgcagcatg 60
ttgagtcaag tttaccgctg tgggttccag cccttcaacc aacatcttct gccctgggtc 120
aagtgtacaa ccgtcttcag atctcattgt atccagcctt cagtcatcag acatgttcgt 180
tcttgagca acatcccgtt tatcactgta cccctcagtc gtacacatgg aaagtccttc 240
gccaccgca gtgagctgaa gcatgccaa agaatcgtgg tgaagctcgg cagtgccgtg 300
gtgaccggag gggatgaatg tggcctggcc ctggggcgct tggcatctat tgttgagcag 360
gtatcagtc tgcagaatca gggcagagag atgatgctgg tgaccagtgg agccgtagcc 420
tttggaac aacgcttgcg ccatgagatc cttctgtctc agagcgtgcg gcaggccctc 480
cactcggggc agaaccagct gaaagaaatg gcaattccag tcttagaggc acgagcctgt 540

```

gcagctgccg	gacagagtgg	gctgatggcc	ttgtatgagg	ctatgtttac	ccagtacagc	600
atctgtgctg	cccagatttt	ggtgaccaat	ttggatttcc	atgatgagca	gaagcgccgg	660
aacctcaatg	gaacacttca	tgaactcctt	agaatgaaca	ttgtcccat	tgtcaacaca	720
aatgatgctg	ttgtccccc	agctgagccc	aacagtgacc	tgcagggggg	aaatgttatt	780
agtgttaaag	ataatgatag	cctggctgcc	cgactggctg	tggaaatgaa	aactgatctc	840
ttgattgttc	tttcagatgt	agaaggcctt	tttgacagcc	ccccaggttc	agatgatgca	900
aagcttattg	atatatttta	tcccggagat	cagcagtctg	tgacatttgg	aaccaagtct	960
agagtgggaa	tgggtggcat	ggaagccaag	gtgaaagcag	ccctctgggc	tttgcaagggt	1020
ggcacttctg	ttgttattgc	caatggaacc	cacccaaagg	tgtctgggca	cgatcatcaca	1080
gacattgtgg	aggggaagaa	agttggtacc	ttcttttcag	aagtaaagcc	tgcaggccct	1140
actgttgagc	agcagggaga	aatggcgcg	tctggaggaa	ggatgttggc	caccttgga	1200
cctgagcaga	gagcagaaat	tatccatcat	ctggctgac	tgttgacgga	ccagcgtgat	1260
gagatcctgt	tagccaacaa	aaaagacttg	gaggaggcag	aggggagact	tgcagctcct	1320
ctgctgaaac	gtttaagcct	ctccacatcc	aaattgaaca	gcctggccat	cggctctgca	1380
cagatcgag	cctcctcca	ggacagcgtg	ggacgtgttt	tgcgccgcac	ccgaatcgcc	1440
aaaaacttgg	aactggaaca	agtgactgtc	ccaattggag	ttctgctggg	gatctttgaa	1500
tctcgtcctg	actgtctacc	ccagggtggc	gctttggcta	tcgcaagtgg	caatggcttg	1560
ttactcaaag	gaggaagga	ggctgcacac	agcaaccgga	ttctccacct	cctgaccag	1620
gaggctctct	caatccatgg	agtcaaggag	gccgtgcaac	tgggaataac	cagagaagaa	1680
gttgaagatc	tttgccgcct	agacaaaatg	atagatctga	tcattccacg	tggctcttcc	1740
cagctggtca	gagacatcca	gaaagctgct	aaggggattc	cagtgatggg	gcacagcgaa	1800
gggatctgtc	acatgtatgt	ggattccgag	gccagtgttg	ataaggtcac	caggctagtc	1860
agagactcta	aatgtgaata	tccagctgcc	tgtaatgctt	tggagacttt	gttaatccac	1920
cgggatctgc	tcaggacacc	attatttgac	cagatcattg	atatgctgag	agtggaacag	1980
gtaaaaattc	atgcaggccc	caaatttgcc	tcctatctga	ccttcagccc	ctccgaagtg	2040
aagtcactcc	gaactgagta	tggggacctg	gaattatgca	ttgaagtagt	ggacaacggt	2100
caggatgcca	ttgaccacat	ccacaagtat	ggcagctccc	acacggatgt	catcgtcaca	2160
gaggacgaaa	acacagcgga	gttcttcctg	cagcacgtag	acagtgcctg	tgtgttctgg	2220
aatgccagca	ctcgcttttc	tgatggttac	cgctttggac	tgggagctga	agtgggaatc	2280
agtacatcga	gaatccacgc	ccggggacca	gtaggacttg	agggactgct	tactactaag	2340
tggctgctgc	gaggaagga	ccacgtggtc	tcagatttct	cagagcatgg	aagtttaaaa	2400
tatcttcag	agaacctccc	tattcctcag	agaaacacca	actgaaaaga	gccaggaaaa	2460
cccgggaatt	ttccaaaagg	tcttcacgtt	aaacttgtct	tatctcagga	gagagcccg	2520
tcttgtctcc	cagttcctgg	tagggctctgc	ctgttgga	gtgtacctgg	atgcttctgg	2580


```

gctccgtttg gcaatagcaa tcttggctga tgtgcacagt ctggctccca gctcaccctt 2640
tttttttaaa gtaagaaaat agttgctacc gatagggact ttgccaagtc caattatctt 2700
ctaggattga aagggtgcatt ttccccataa aaaaggcgag gaaaacccat ggctgctttg 2760
tgtcacctca gtgacttaca gtcccccttc gcatttagtt ggtactagag ccagtcatcc 2820
ttaacaaatc ttttcgcggt ttatttcttt cacatgtagt catcttcaaa aaggaaagat 2880
ttggaatttt agaaaagggg caactcttct ttttagcatt ctcatcagaa agtcacaaaa 2940
atcgatggaa tcatttccac tgggaagatt gaccttttgt atttatttgt ggggtaaatt 3000
aataagcatt ccagatgctt gcagcttcct gcatccagga gatgctgtgt cccccgtgat 3060
gcagctggaa cccaagctgc agcaggagat gcaagtttca ggatgttccc cactgagctg 3120
gaggaatatc tacagcagtg atgcttgaaa tttttgtatg aattattttg tcgtcctacc 3180
cttttctcc aaaacaaaaa ttagaggatt attttaatac tttggattct tccccctttt 3240
ttgagaaata aagtttttta tg 3262

```

<210> 111

<211> 2899

<212> DNA

<213> NM_005655.1| Homo sapiens TGFB inducible early growth response (TIEG), mRNA

```

<400> 111
cagacggcgc tgagcgcggc ggcggcgagg gcggcgtcga gtgtctccgt gcgcccgtct 60
gtggccaagc agccagcagc ctagcagcca gtcagcttgc cgccggcggc caagcagcca 120
accatgctca acttcggtgc ctctctccag cagactgcgg aggaaagaat ggaaatgatt 180
tctgaaaggc caaaagagag tatgtattcc tggaacaaaa ctgcagagaa aagtgatttt 240
gaagctgtag aagcacttat gtcaatgagc tgcagttgga agtctgattt taagaaatac 300
gttgaaaaca gacctgttac accagtatct gatttgtcag aggaagagaa tctgcttccg 360
ggaacacctg attttcatac aatcccagca ttttgtttga ctccacctta cagtccttct 420
gactttgaac cctctcaagt gtcaaactct atggcaccag cgccatctac tgtacacttc 480
aagtcactct cagatactgc caaacctcac attgccgcac ctttcaaaga ggaagaaaag 540
agcccagtat ctgcccccaa actccccaaa gctcaggcaa caagtgtgat tcgtcataca 600
gctgatgccc agctatgtaa ccaccagacc tgcccaatga aagcagccag catcctcaac 660
tatcagaaca attcttttag aagaagaacc cacctaaatg ttgaggctgc aagaaagaac 720
ataccatgtg ccgctgtgtc accaaacaga tccaaatgtg agagaaacac agtggcagat 780
gttgatgaga aagcaagtgc tgcactttat gacttttctg tgccttcctc agagacgggtc 840
atctgcaggt ctgagccagc ccctgtgtcc ccacaacaga agtcagtgtt ggtctctcca 900

```

cctgcagtat	ctgcaggggg	agtgccacct	atgccggtca	tctgccagat	ggttcccctt	960
cctgccaaca	accctgttgt	gacaacagtc	gttcccagca	ctcctcccag	ccagccacca	1020
gccgtttgcc	cccctgttgt	gttcatgggc	acacaagtcc	ccaaaggcgc	tgtcatgttt	1080
gtggtacccc	agcccgttgt	gcagagttca	aagcctccgg	tggtgagccc	gaatggcacc	1140
agactctctc	ccattgcccc	tgctcctggg	ttttcccctt	cagcagcaaa	agtcactcct	1200
cagattgatt	catcaaggat	aaggagtcac	atctgtagcc	accaggatg	tggcaagaca	1260
tactttaaaa	gttcccattc	gaaggcccac	acgaggacgc	acacaggaga	aaagcctttc	1320
agctgtagct	ggaaagggtt	tgaaaggagg	tttgcccgtt	ctgatgaact	gtccagacac	1380
aggcgaaccc	acacgggtga	gaagaaat	gcgtgcccc	tgtgtgaccg	gcggttcatt	1440
aggagtgacc	atttgaccaa	gcattgccc	cgccattct	cagccaagaa	gctaccaa	1500
tggcagatgg	aagttagcaa	gctaaatgac	attgctctac	ctccaacccc	tgctcccaca	1560
cagtgcagaga	ccggaaagt	aagagtcaga	actaacttt	gtctcagcgg	gagccagtgg	1620
tgatgtaaaa	atgcttccac	tgcaagtct	tggtccccc	acgtgggctt	aaagcagaag	1680
ccccacagcc	tggcacgaag	gccccgcct	ggtaggtga	ctaaaagggc	ttcggccaca	1740
ggcaggtcac	agaaaggcag	gtttcatttc	ttatcacata	agagagatga	gaaagctttt	1800
attcctttga	atattttttg	aaggtttcag	atgaggtcaa	cacaggtagc	acagattttg	1860
aatctgtgtg	catatttggt	actttacttt	tgctgtttat	acttgagacc	aacttttcaa	1920
tgtgattctt	ctaaagcact	ggtttcaaga	atatggaggc	tggaaggaaa	ttaacattac	1980
ggtacagaca	tggagatgta	aatgagttt	gtattattac	aaatattgtc	atctttttct	2040
agagttatct	tctttattat	tcctagtctt	tccagtcaac	atcgtggatg	tagtgattaa	2100
atatacttag	aactatcatt	tttactact	tgtgaatatt	tgggaattgaa	cgactgtata	2160
ttgctaagag	ggcccaaaga	attggaatcc	tccttaattt	aattgctttg	aagcatagct	2220
acaatttggt	tttgcatttt	tgttttgaaa	gtttaacaaa	tgactgtatc	taggcatttc	2280
attatgcttt	gaacttttagt	ttgcctgcag	tttcttggtg	agatttgaaa	attgtatacc	2340
aatgtgtttt	ctgtagactc	taagatacac	tgacttttgt	ttagaaaaaa	aactgaagat	2400
gaaatatata	ttgtaaagaa	gggatattaa	gaatcttaga	taacttcttg	aaaaagatgg	2460
cttatgtcat	cagtaaagta	cctttatgtt	atgaggatat	aatgtgtgct	ttattgaatt	2520
agaaaattag	tgaccattat	tcacagggtg	acaaatgttg	tcctgttaat	ttataggagt	2580
tttttgggga	tgtggaggta	gttgggtaga	aaaattatta	gaacattcac	ttttgttaac	2640
agtatttctc	ttttattctg	ttatatagtg	gatgatatac	acagtggcaa	aacaaaagta	2700
cattgcttaa	aatatatagt	gaaaaatgtc	actatatctt	cccatttaac	attgtttttg	2760
tatatgggtg	gtagatttct	gacatcaaaa	cttggaccct	tggaaaacaa	aagttttaat	2820
taaaaaaaat	ccttgtgact	tacaatttgc	acaatatttc	ttttgttgta	ctttatatct	2880

tgttttacaat aaagaattc

2899

<210> 112

<211> 3138

<212> DNA

<213> NM_018223.1| Homo sapiens checkpoint with forkhead and ring finger domains (CHFR), mRNA

<400> 112

ctcttgacag	cggcggcggc	gcagccggtt	ccgggttcgg	cgcggggcgg	ggatgtgaat	60
cccgatggag	cggccccgag	aaggcaagca	gtcgccgccg	ccgcagccct	ggggacggct	120
cctgcgtctg	ggcgcggagg	agggcgagcc	gcacgtcctc	ctgaggaagc	gggagtggac	180
catcgggcgg	agacgaggtt	gcgacctttc	cttccccagc	aataaactgg	tctctggaga	240
tcactgtaga	attgtagtgg	atgaaaaatc	aggtcaggtg	acactggaag	ataccagcac	300
cagtggaaac	gtgattaaca	agctgaaggt	tgtaagaag	cagacatgcc	ctttacagac	360
tggggatgtc	atctacttgg	tgtacaggaa	gaatgaaccg	gaacacaacg	tggcatacct	420
ctatgaatct	ttaagtgaag	agcaaggcat	gacacaagaa	tcctttgaga	tgggtgcctt	480
ctgtgttgcc	caggctgggtc	taaaactcct	gggatcaagt	gatcctccca	ccttggcctc	540
ccaaagtatt	gtgattacag	ggtctggggg	tggtggcatc	tcccctaaag	gaagtgggtcc	600
ctctgtggca	agtgatgaag	tctccagctt	tgccctcagc	ctcccagaca	gaaagactgc	660
gtccttttgc	tcgttggaac	cccaggatca	ggaggatttg	gagcccgaga	agaagaaaat	720
gagaggagat	ggggaccttg	acctgaacgg	gcagttgttg	gtcgcacaac	cgcgtagaaa	780
tgcccaaacc	gtccacgagg	acgtcagagc	agcggctggg	aagccagaca	agatggagga	840
gacgctgaca	tgcacatcat	gccaggacct	gctgcacgac	tgcgtgagtt	tgacgccctg	900
catgcacacg	ttctgcgcgg	cttgctactc	gggctggatg	gagcgctcgt	ccctgtgtcc	960
tacctgccgc	tgtcccgtgg	agcggatctg	taaaaaccac	atcctcaaca	acctcgtgga	1020
agcatacctc	atccagcatc	cagacaagag	tcgcagtga	gaagatgtgc	aaagtatgga	1080
tgccaggaat	aaaatcactc	aagacatgct	gcagcccaaa	gtcaggcggt	ctttttctga	1140
tgaagaaggg	agttcagagg	acctgctgga	gctgtcagac	gttgacagtg	agtcctcaga	1200
cattagccag	ccatacgtcg	tgtgccggca	gtgtcctgag	tacagaaggc	aggcggcgca	1260
gcctccccac	tgcccagcac	ccgagggcga	gccaggagcc	ccacaggccc	tgggggatgc	1320
acccccacg	tccgtcagcc	tgacgacagc	agtccaggat	tacgtgtgcc	ctctgcaagg	1380
aagccacgcc	ctgtgcacct	gctgcttcca	gcccatgccc	gaccggagag	cggagcgcgca	1440
gcaggacccg	cgtgtcgccc	ctcagcagtg	tgcggtctgc	ctgcagcctt	tctgccacct	1500
gtactggggc	tgcacccgga	ccggctgcta	cggctgcctg	gccccgtttt	gtgagctcaa	1560

```

cctgggtgac aagtgtcttg acggcgtgct gaacaacaac agctacgagt cagacatcct 1620
gaagaattac ctggcaacca gaggtttgac atggaaaaac atgttgaccg agagcctcgt 1680
ggctctccag cggggagtgt ttctgctgtc tgattacaga gtcacgggag acaccgttct 1740
gtgttactgc tgtggcctgc gcagcttccg tgagctgacc tatcagtatc agcagaacat 1800
tcctgcttcc gagttgccag tggccgtaac atcccgtcc t gactgctact ggggccgtaa 1860
ctgccgcact caggtgaaag ctcaccacgc catgaaattc aatcatatct gtgaacagac 1920
aaggttcaaa aactaagcat ccagaggccc tgagcagctt tcagcactgg aggtgaagag 1980
agcgtgtttt taaaatacag aggcaagcac gtcaagggtg tttcacagcc ccctgaggga 2040
agggacgcag ggtctccgac aggtgctctg gggtgactct tctgtggagc tttaccctct 2100
gagtgaagacc ctccccagag ccccgggggc cgagcccg cctcctggtg agcgctgggc 2160
agggctcgtg gtggcatcag cagcagagac gaagccttc tgtaacatgc ggccgtcctg 2220
ccgagagggg cagttttgct cttttgtaca ttttccgaaa ctacagttaa agcggaagtc 2280
tgttttcagg aaaagtttca agggagaagg gcaagttta caaaaacatt gtttcaggag 2340
aaggagcat aagtttacag cctacaggac gtacacaata tcctgctgct gggaaaacca 2400
cagcatttta tctatTTTTT attttaatag gtttggtgct tatcttctaa taagatttaa 2460
atgtcacaaa ctgtagcaca aataatataa ttataattt acaaattgac taaaattggg 2520
tatagtatgg tatttgaaag aataagcata tgcttctgtt tattaataaa agaaaccttc 2580
caatgtccaa aactgctaac cctcgacgtg gccgccaagt tagtcgctcc ttgctaaccg 2640
gtgagtgaac gcggccccga gcctggggct ggacgcagg cccaggacat gctgctccct 2700
tgtgtgagt accgcggccc cgagcctggg gctggacgca ggtcccagga cgtgctgctc 2760
ccttgtgtga gtgaccacgg cccaagccc agggctggag gcaggtcca ggacgcgccg 2820
ctccctcatg ctgcccgggc cttcctcca agaccctaca gacctgagg ggcaccttg 2880
cttccgcctg tgctagcttt gccatgtcat ctggaataat acttgaaatt ttgattcttg 2940
gaaaaaaaaa tttcttatct tttgttgaaa tcacctgtta tccttgtttg taaactgata 3000
acttttttgc ttcttctcag gaatacagtt ttcaactgtt gtcttgctct tgatagaaac 3060
tgagaagcag caatctgtat ttgtggagga aagtcctctc ttttgcatat tctaataaat 3120
gagccgcgtt tgctcctc 3138

```

<210> 113

<211> 2466

<212> DNA

<213> NM_024645.1| Homo sapiens hypothetical protein FLJ13842 (FLJ13842), mRNA

<400> 113

```

agttgggtccg agctgccgaa aggtctggtc gcagagacag gaacgtgtaa tcctcagcgt 60

```

gctccagccc	acagcttcgc	tctactgctc	ggcagggcag	ctggcctctg	ggcaccggcg	120
gcccctctgc	ctcgcggaaa	agcctgatga	agtcctccga	tattgatcag	gattttattca	180
cagacagtta	ctgcaagggtg	tgcagtgcac	agctgatctc	cgaatcgag	cgtgtggccc	240
actacgagag	tcgaaaacat	gcaagcaaag	tccgactgta	ttacatgctt	caccccaggg	300
atggaggggtg	tcctgccaag	aggctccggt	cagaaaatgg	aagtgatgcc	gacatgggtgg	360
ataagaacaa	gtgctgcaca	ctctgcaaca	tgtcattcac	ttcagcgggtg	gtggccgatt	420
cccattatca	aggcaaaatc	cacgccaaga	ggttaaaact	cttgctagga	gagaagaccc	480
cattaaagac	cacagcaaca	cccctgagcc	cacttaagcc	cccacggatg	gacactgctc	540
cgggtggctgc	atctccctat	caaagaagag	attcagacag	atactgtggg	ctctgtgcag	600
cctggtttaa	taaccctctg	atggcccagc	aacattatga	tggcaagaaa	cacaaaaaga	660
atgcggcaag	agttgctttg	ttagaacaac	tggggacaac	cctggatatg	ggggaactga	720
gaggtctgag	gcgcaattac	agatgtacca	tctgcagtgt	ctccctaaac	tcaatagaac	780
agtatcatgc	ccatctgaaa	ggatctaaac	accagaccaa	cctgaagaat	aagtagtgaa	840
agcatcaatc	aagacataag	aacaaaacat	tagcattttct	ctgccgtgga	gaattgctta	900
tcaaccacca	gaggaggctt	ctttcttgaa	caataaacat	ttcttataag	gattcacaga	960
ttcacatacg	actgatcttg	atttttggaa	atgaatgagg	tttctttttt	ctttttcctt	1020
tttttaattt	tggggtaagt	tatgatattt	ggatggattt	ttaaattctt	tcctgataac	1080
atatttagca	catgttctaa	attataatcc	tatagcaaac	agttggagca	ttattcaaac	1140
tgaaagtgga	aaaatttaaa	tttccaattt	attctagatt	tcctcagagc	ataattattc	1200
tgttaaatcc	tcaatgagtg	tgatgtaaac	cacctctatc	cagaaatata	cattcttttc	1260
tcatcatgtt	ggacacagtt	gagggtgaca	tgcacagaac	tggaacagat	cactattagt	1320
ggaaaatacc	aatggacaa	ataaatacca	gtcgttttct	ccgttctcca	agcacaggag	1380
ccaggtttac	catctgaaca	atgaagacga	agggagtaaa	taaaggaaga	attctcatct	1440
tttttcctga	tcattcaaag	aacagtttct	caaggttaag	ccaagtcctc	cttgcaagtt	1500
gccaaataat	agcttaggaa	aagaattagt	ctgcctgcat	gatgatcttc	ttaggcaaaa	1560
acgtcttcac	agcccttgac	cttggtgaat	ttttttcccc	aaaagcatcc	aaaagaagaa	1620
ttataaaccc	cagaacgaga	tggaataaaa	caagtatttt	ttttttatga	tgtttggcct	1680
gaactgtggg	ctttaattgg	gggatactga	tcgtttggaa	agaagtgaga	aaattctgaa	1740
gaaatggcgg	ccttgggcta	ggcggggctc	cctatttctt	ctgtttctca	ctgaagtcct	1800
actgctgagc	caagactcag	tcactctgga	aagagcatga	ccgataaaga	aaacagttcc	1860
tttctgatgg	ggagcgtctg	agtgcagatc	atgaggctct	ttctctaggt	ttaattcttt	1920
tccatggtga	ccggacttgg	tgtcttgtag	cctggttacg	aagtgggacg	ttgagcttct	1980
actgacgatg	ccctgcatgg	accagctggg	atctggctgg	ggctgccctg	tgtccctaac	2040

```

gaccatagggc aatccatctt cttgtgtcag caatttctgg acacccaactg ttttccacca 2100
agagctgagg tggcaacaac tcagttagca ataaacaaaa tgacacagaa atgcacagtg 2160
ttgttatgaa ggagcctgtt tacctgtgtt caaaatctgg caccattccc ttgagcaggg 2220
cccgtcagg agggaccagg tctgccagtt tctgtgcctg cagagagacg aagccccacg 2280
agccacaccc tactctacaa gaggaagg ggttggatgg gaagaatcta ttttgctgtt 2340
ttggaaagca cacagccgac ctacaaacct cctgtgatgg tgtttcttcg gatgtgtaaa 2400
ataaggcttt atttgtcaat tccgctgtaa aataagcatt gtccgagtaa aaacagcagc 2460
aacaac 2466

```

<210> 114

<211> 3658

<212> DNA

<213> NM_025195.2| Homo sapiens tribbles homolog 1 (Drosophila) (TRIB1), mRNA

```

<400> 114
aaggaggagt gcactggccg ggatcgggtg agcgctcaca ctactcaca gtcactctct 60
ctgagcgcggt ctcgctcgct ctcatcacg cccggagccc aggagcgctc aggatcccga 120
gcgccgcgaa aaagtcccc cggttttgc tggagactca tcgttttggg aagtgcattt 180
gcttcgtggc tccgccgagc ctgctgaatc ctgtcctcgc ggcacgggac cccgggatcg 240
ctgaccgctg ccgccgccgc ctctgcctcc cggactatcg gcagcctcgg caacaatagt 300
ggcgccgcc cccagcgagg ctccgggagc ccttgctgc gggggtcagg ggactcgagc 360
cggcctccgc ctcccggagc cacagccagc gtggtccccg cgtgcaacgc gagcgccggg 420
gagtggctcc tgctttgccc ctctggtggg ccgagccaag accagtcctgc aaactccatc 480
ccgccggctg gaagaagtcg cggagccggc accaaacccg cagcgtcttc ccgcgcggat 540
cccgggactt aaaaagccgg ggccacccc gcccaggacg ggatgcgggt cgggtccgggtg 600
cgctctgcca tgagcggcgc ctgcagccc cgcggcccg ccctgctctt cccagccacc 660
cgaggcgtcc cggccaaacg cctgctggac gccgacgacg cggcggctgt ggcgccaag 720
tgccgcgcc tctccgagt ctccagccc cggactacc tcagcccc cggctcgccc 780
tgagcccgcc agccccgcc tgccgctccg ggggccggcg gaggtccgg gagcgcgccg 840
gggcccagcc gcatcgccga ctacctgtg ctgcccctag ccgagcgaga gcatgtgtcc 900
cgggcgctgt gcatccacac tggacgcgag ctgcgctgca aggtgtttcc cattaaacac 960
taccaggaca aaatcaggcc ttacatccag ctgccatcgc acagcaacat tactggcatt 1020
gtggaagtga tccttgggga aaccaaggcc tatgtcttct ttgagaagga ctttggggac 1080
atgcactcct atgtgcgaag ccggaagagg ctgcgggaag aggaagcgc ccggctcttc 1140
aagcagattg tctccgccgt cggccactgc caccagtcag ccatcgtgct gggggacctg 1200

```

aagcttagga	agttcgtctt	ctccacggag	gagagaaccc	agcttagact	agaaagtcta	1260
gaagacacac	acataatgaa	gggggaagat	gatgctttgt	cagacaaaca	tggtgcccc	1320
gcctacgtga	gccctgagat	cctcaacacc	actgggacct	actccggaaa	ggctgctggac	1380
gtttggagcc	tgggggtgat	gctctacacc	cttctggttg	gacgataccc	cttccatgac	1440
tcagacccca	gtgccctttt	ctccaaaatt	cggcgtggac	agttctgcat	tcctgagcac	1500
atctccccc	aagccaggtg	cctcattcgc	agcctcttga	gacgggagcc	ctccgagaga	1560
ctcactgccc	ccgagatcct	actgcacccc	tggtttgagt	ccgtcttgga	acccgggtac	1620
atcgactcag	aaataggaac	ttcagaccag	attgtttccag	agtaccagga	ggacagtgac	1680
attagttcct	tcttctgcta	atccccaaaa	cctcagaaac	ctcataattc	ttaacacctg	1740
gcatttccat	ttctaaagat	ggacaggccc	tttggcgtgg	taccaaccag	ataatgactg	1800
catcaggatg	aaagctgctg	aactcggcat	ggcgctctct	cttctctgtt	gggatgagtg	1860
actttattga	tttgagcagc	atatgctgtg	attggctgcc	ctgcaaattt	gtttccctta	1920
aggaaccctc	accaactatc	tctgctggat	ttgggagttc	cgcattcttt	gtggagggca	1980
gagtatggac	atcttacacc	cggtggtcaa	gtgtgtaata	aacttgagca	ttcgaatggg	2040
agaaaaagca	aatcgcacaa	tgacatattt	tgagtaataa	ccgtattttt	cacagggtga	2100
caaattgggc	caataaatct	gccatctttg	aactcatctt	tggtggctag	actgctacgg	2160
cagcttctct	gatgggaaag	ttcctttttt	ggcttaacac	tcaccttttc	ttcacactca	2220
cattttacca	tgactctgct	ccgttttttg	agcagactgt	tttaagttgc	tcaggagcct	2280
gatggaacca	tgaaccgaga	ctcttctctg	tttcttgcca	agacctcatc	tgactactaatg	2340
ccttctccct	gaccttgaca	cttccccctt	tagctataaa	agcacttacc	agccgaacgt	2400
ggaacagtat	cacaaaagat	tccatctccc	aacgatttca	gaactctgag	ctcagagaga	2460
ctccagattt	taaaaaataa	tttgagtgtc	tggaaactat	tagcttttta	agttccttcc	2520
aaatatgtta	gtacctaccc	tttacttttt	ccccagacc	atctcagggt	ggagcattct	2580
gtctaagaga	agaaagataa	ggaggctccc	accacctct	cccaagagca	gacattaaac	2640
atctttgtgc	tttgaagaga	gtgaattttg	gatagtcttg	tgattctcag	actaacttcc	2700
agaattatac	tttaaccctt	cccagatatg	gtccgccttt	ggcattgtgt	gtacatctgc	2760
agttttgcat	ggtgggttgt	taatatttca	aatgtgtggt	ttatgaatac	gtctgtataa	2820
tcggcttctg	gagtgaacaa	gcaaacccca	aatcttcaaa	gttgaagga	acttttaaaaa	2880
tcattccggtc	caatctcttt	cctctttctg	ccacctcca	aggcagaaat	cccctcttca	2940
gcttcttttg	taggtgggaa	tccagcctct	gttagatatg	tccagagatg	gaaactcact	3000
cccctacaaa	agatggagct	taatggagaa	attgcaactt	tcattaaaaa	acaaattcag	3060
atgaaatatc	agtaactgtc	ttggacagtg	ctgaaatcag	gtggttaaac	gggtaaacaa	3120
aatatactgt	attttgagaa	atggcacaaa	aacaggcagt	catctttaag	ggctatgcct	3180

```

aggcaaaacta ctaacatgca ttgtgagaat gccgtgtata cctcacgtac tgtgtacttt 3240
gtacatatat tttaacctttt atacctatgt tcgattttgt tttgttttgt tttgttctgg 3300
ctttgaggct tgttttgttg tctgtgtctg tctgaataac ctgctgtctt aaaaccacgt 3360
gaaatgtgaa tgattattgg caatattacc ttgacagaat catgggactt tgagaagagg 3420
gaggacagag gcctctgtcg cactaacgct ctcgtggttg ctcgactgtt gtatctgtga 3480
tacattatcc gactaaggac tctgggctgg cagggccttc tgccgggaaa gctagaaaca 3540
ctaggttctt cctgtacata cgtgtatata tgtgaacagt gagatggccg tttctgactt 3600
gtagagaaat ttttaataaac ctggtttcgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3658

```

<210> 115

<211> 4624

<212> DNA

<213> NM_033331.1| Homo sapiens CDC14 cell division cycle 14 homolog B (S. cerevisiae) (CDC14B), transcript variant 2, mRNA

```

<400> 115
cacggaacag ccctcctggg gtccccacga gccgcgtcct gctgtgcccc ggcgccctacg 60
cagcagcggc cgcgggccgc gtgggcacgc acggttacct cgggcagctc cggccgccag 120
ctgcagcccc gtcgcctcgg ccgcgccagc cggctgcggg cacctggggg cgggctgggg 180
gcgccggccg cggcaggagg cgctgtagcg agggctgcgg cgccggtcct gcggcggccg 240
cgggaggcag cggggcaggc gctgtggggc gggctcctcc tccggctcct gcgcgaccgc 300
ctcccgcggg gctctgccgg cgcccgcgt cccgcgagcg ccgctctgcg cccgccgccc 360
cgagcgcgcc cgcggggctg gcgggagcct cggcgggcgc gcgggcgcgc ggggccatgg 420
tcgtggcccc ctgacggggc gcggccgcct ccatgaagcg gaaaagcgag cggcggtcga 480
gctgggcccgc cgcgcccccc tgctcgcggc gctgctcgtc gacctgccg ggtgtgaaga 540
agatccgcag ctccacgcag caagaccgc gccgcggga cccccaggac gacgtgtacc 600
tggacatcac cgatcgcctt tgttttgcca ttctctacag cagaccaaag agtgcacaa 660
atgtacatta tttcagcata gataatgaac ttgaatatga gaacttctac gcagattttg 720
gaccactcaa tctggcaatg gtttacagat attgttgcaa gatcaataag aaattaaagt 780
ccattacaat gttaaggaag aaaattgttc attttactgg ctctgatcag agaaaacaag 840
caaatgctgc cttccttggt ggatgctaca tggttatata tttggggaga accccagaag 900
aagcatatag aatattaatc tttggagaga catcctatat tcctttcaga gatgctgcct 960
atggaagtgt caatttctac attacacttc ttgactgttt tcatgcagta aagaaggcaa 1020
tgcagtatgg cttccttaat ttcaactcat ttaaccttga tgaatatgaa cactatgaaa 1080
aagcagaaaa tggagattta aattggataa taccagaccg atttattgcc ttctgtggac 1140

```


ctcattcaag agccagactt gaaagtgggt accaccaaca ttctcctgag acttatattc	1200
aatatttttaa gaatcacaaat gttactacca ttattcgtct gaataaaagg atgtatgatg	1260
ccaaacgctt tacggatgct ggcttcgatc accatgatct tttctttgcg gatggcagca	1320
ccccactga tgccattgtc aaagaattcc tagatatctg tgaatgct gagggtgcca	1380
ttgcagtaca ttgcaaagct ggccttgggt gcacgggcac tctgatagcc tgctacatca	1440
tgaagcatta caggatgaca gcagccgaga ccattgcgtg ggtcaggatc tgcagacctg	1500
gctcgggtgat tgggcctcag cagcagtttt tgggtgatgaa gcaaaccaac ctctggctgg	1560
aaggggacta ttttcgtcag aagttaaagg ggcaggagaa tggacaacac agagcagcct	1620
tctccaaact tctctctggc gttgatgaca tttccataaa tggggctcgag aatcaagatc	1680
agcaagaacc cgaaccgtac agtgatgatg acgaaatcaa tggagtgaca caaggtgata	1740
gacttcgggc cttgaaaagc agaagacaat ccaaaacaaa cgctattcct ctcacagtaa	1800
ttcttcaatc cagtgttcag agctgtaaaa catctgaacc taacatttct ggcagtgcag	1860
gcattactaa aagaaccacc agatctgctt caaggaaaag cagtgtttaa agtctctcca	1920
tttcaaggac taaaacagtc ttgcgttaag taaaaacctg tgaccagagc tgaaggaaga	1980
ctctaggact gaaaactgca acagaaatta gcacaatttg aaaacaaaac aaaattgcaa	2040
aagccttagt tgctttttcc acctaagaag ttgatcaatg gagaaaatgt cactggagt	2100
ttgaataatg aactttgagt ttgggtgcaa gcaatgact cagagaaggg tccagctctc	2160
aagctgaatg acaaacatgc tggtgtaaat ttagtctcag gtgtaaatac ccaagccctc	2220
tggtacccag ggagctggct ggtctgtggt gcatgtgtgt ccctgtgatg gcaatcattg	2280
tagttgctgg ccttcagaag aattgaggat ctgatggagg ttttttatgt atttattttc	2340
tgttcacctt gtgaccctgt gtcaaaattt ataaagatac aaaaggcatt actgaaatgg	2400
tactttctgt aatttgatac tatttggtt aatcatcttc acttgactat ttgtaatact	2460
gttgtaatgt taactctgtt aagtaccaa gctgcttgct ttccaccaa gagtgcttta	2520
ttaacaagaa tctgtgaaaa tcacatttaa acactgttg atgttgtaag accagggtgg	2580
accttagtaa cctaaaactt gcaagagaat attaatggta gctttagaag actcaggagg	2640
agaaactgac ttcagagttg gaagatgttg caagtcgttc ctttttctgt ccttcaggga	2700
ctgaagaact gggaggctgc ccattgtttg gttgccagtc atacaaatta aaatcatatt	2760
tccttccatg aatggaagaa acacactatt ggtttttccc cttggaaaca gcaatcccaa	2820
ataatgtcgg cttaaaaaa aaaaaagtta ccactttttt agagtccttc cctgtaacat	2880
tggatttttt ttttccctta tgagatccac ctaaggccat tgacgtggcc tgcgatctca	2940
gtgacaatga tctgcttctg gatctcactg ttgcctttgg ttagggaaca caactagtaa	3000
ctctgcagag tgccttctcc cgcagcccta ctggaacaca gcagagtctg tgccatgaag	3060
cagttacaga aacagaattg atgtgctgcc aaaaaaaaaa aaaaaatggg gcccgaaata	3120
aaagaatata tagtactcac ctcaagttcct tccataagaa gtgggtgggt taatgattgt	3180

```

taagccattt ttgcctgtgc cgggagcatg gagggctgag atgtcgacag gcagtgggaa 3240
acaaatgccc tcctaagcca caaggcgtgc gccagattag taggcaactc cattttaaga 3300
agctgccttt ttcacaaaac tggaagaaat aaaagcgggt ggaataaaca agttaaaagt 3360
ctttaatgca aaaagtaatt gaaaggcagt gcctccattt tgggtgtactt tcttggaaga 3420
aagtataaaa ttgaccggca tcatgagaga cggaagatgc cgtgttctca gccaaacaag 3480
caactctttc cccgccaggc actgtcgggt ggggtcaggc cagcttttaa acactgggga 3540
ctggatcaca gaaaaacagt ggttttctgt ccctggaaat gaataggcac aaagaccac 3600
ttggctgtgg gcagactact cttcaataag atttgggtgg gaggaggaac attccttttg 3660
ctattttgag ctgagacaat ataaatattc aaactgtgcc atgcataaag cattgaattc 3720
tcagggcacc tcttcttccc cttaccctt ttaaggccat cccctccatt aataataatc 3780
caggtagtgt tgaaaatcgt gcttctatct gatcccttct tagtttggct tttcatccca 3840
tcagaacaag taaacgtagg cgccacagct cttgtgagta ctgtctccct cacggtgaat 3900
gagcctcctg gtgtttcgtc caagaaaaga aagggtgtca ctggaaccac agcccttttt 3960
cattttataa actgcctctt catgttgctt gctcaagttt ccacctagaa ttgctatcac 4020
tgtggctctt tctaaaaatc tttctattta actgggttcac tgaaattagt catagaaaac 4080
ttgtgatttg gtgaagaggc attccttgta ataaccaaat gacttgggat ggtgtgcata 4140
gcaagggcag tgttacactt atgaggactg tctctagcat ccaggaagtc tctgggtctg 4200
agggatggaa agttcttcct gctatgaatg agagtggact cttcccctca cccccaactg 4260
aaaccacaaa caaccagaat cttctggaat tctgacttag agtcgttggt atagaagacc 4320
ttgttgctat ggaacatgaa actgtgtgtc agatggagag atccccctaa cctaagagcc 4380
ttaaatagcc ctgaaagtac actgggacgg tttgcatgg aattaaaatt ggaagtgaat 4440
attttttaggt gctcttgaa ctttctgggg actcaaaatt atcaaaagtc agggacagtc 4500
cggaggaaga gcgtctgcaa aactgggttc ctagaagtat agacggactt agctttttgt 4560
agaatttggt gaggagcagc gcctcgtgag agcagaatgg cctggcgtgg ccagtgttc 4620
ccgg 4624

```

<210> 116

<211> 3919

<212> DNA

<213> NM_201524.1| Homo sapiens G protein-coupled receptor 56 (GPR56), transcript variant 2, mRNA

```

<400> 116
cgcactagct gtctgccctg ccctgccgta ggagatgggc tgggagcctc ccacgctctc 60
cagctcactc ggcaggcagc ggggaccagg gctggcagggt taagcctctg ggggtggatc 120

```

ctgaaagggtg	gtccagccgc	ctggccctgc	gtgggaccct	ccacctggca	gcagacaggg	180
tctcgctctg	tcacacaggc	tggagtgcag	tgggtgtgatc	ttggctcatc	gtaacctcca	240
cctcccgggt	tcaagtgatt	ctcatgcctc	agcctcccga	gtagctggga	ttacagggtgg	300
tgacttccaa	gagtgactcc	gtcggaggaa	aatgactccc	cagtcgctgc	tgacagacgac	360
actgttcctg	ctgagtctgc	tcttcctggt	ccaagggtgcc	cacggcaggg	gccacagggga	420
agactttcgc	ttctgcagcc	agcggaaacca	gacacacagg	agcagcctcc	actacaaacc	480
cacaccagac	ctgcgcatct	ccatcgagaa	ctccgaagag	gccctcacag	tccatgcccc	540
tttccctgca	gcccaccctg	cttcccgatc	cttccctgac	cccagggggcc	tctaccactt	600
ctgcctctac	tggaaaccgac	atgctgggag	attacatctt	ctctatggca	agcgtgactt	660
cttgcctgagt	gacaaagcct	ctagcctcct	ctgcttccag	caccaggagg	agagcctggc	720
tcaggggcccc	ccgctgttag	ccactttctgt	cacctcctgg	tggagccctc	agaacatcag	780
cctgcccagt	gccgccagct	tcaccttctc	cttccacagt	cctccccaca	cggccgctca	840
caatgcctcg	gtggacatgt	gcgagctcaa	aagggaacctc	cagctgctca	gccagttcct	900
gaagcatccc	cagaaggcct	caaggaggcc	ctcggctgcc	cccgccagcc	agcagttgca	960
gagcctggag	tcgaaactga	cctctgtgag	attcatgggg	gacatggtgt	ccttcgagga	1020
ggaccggatc	aacgccacgg	tgtggaagct	ccagcccaca	gccggcctcc	aggacctgca	1080
catccactcc	cggcaggagg	aggagcagag	cgagatcatg	gagtactcgg	tgctgctgcc	1140
tcgaacactc	ttccagagga	cgaaaggccg	gagcggggag	gctgagaaga	gactcctcct	1200
ggtggacttc	agcagccaag	ccctgttcca	ggacaagaat	tccagccaag	tcctgggtga	1260
gaaggctctg	gggattgtgg	tacagaacac	caaagtagcc	aacctcacgg	agcccgtggt	1320
gctcactttc	cagcaccagc	tacagccgaa	gaatgtgact	ctgcaatgtg	tgttctgggt	1380
tgaagacccc	acattgagca	gcccggggca	ttggagcagt	gctgggtgtg	agaccgtcag	1440
gagagaaacc	caaacatcct	gcttctgcaa	ccacttgacc	tactttgcag	tgctgatggt	1500
ctcctcgggtg	gagggtggacg	ccgtgcacaa	gcactacctg	agcctcctct	cctacgtggg	1560
ctgtgtcgtc	tctgccctgg	cctgccttgt	caccattgcc	gcctacctct	gctccaggag	1620
gaaacctcgg	gactacacca	tcaagggtgca	catgaacctg	ctgctggccg	tcttcctgct	1680
ggacacgagc	ttcctgctca	gcgagccgggt	ggccctgaca	ggctctgagg	ctggctgccg	1740
agccagtgcc	atcttcctgc	acttctccct	gctcacctgc	ctttcctgga	tgggcctcga	1800
ggggtacaac	ctctaccgac	tcgtggtgga	ggtctttggc	acctatgtcc	ctggctacct	1860
actcaagctg	agcgccatgg	gctggggcct	ccccatcttt	ctggtgacgc	tgggtggccct	1920
ggtggatgtg	gacaactatg	gccccatcat	cttggctgtg	cataggactc	cagagggcgt	1980
catctaccct	tccatgtgct	ggatccggga	ctccctggtc	agctacatca	ccaacctggg	2040
cctcttcagc	ctggtgtttc	tgttcaacat	ggccatgcta	gccaccatgg	tgggtgcagat	2100

```

cctgcggtctg cgccccacaca cccaaaagtg gtcacatgtg ctgacactgc tgggcctcag 2160
cctggctcctt ggcctgccct gggccttgat cttcttctcc ttgtctctg gcaccttcca 2220
gcttgctctc ctctaccttt tcagcatcat cacctccttc caaggcttcc tcatcttcat 2280
ctgggtactgg tccatgcggc tgcaggcccc ggggtggcccc tcccctctga agagcaactc 2340
agacagcgcc aggtcctcca tcagctcggg cagcacctcg tccagccgca tctaggcctc 2400
cagcccacct gcccatgtga tgaagcagag attcggcctc gtcgcacact gcctgtggcc 2460
cccagagccc gccagcccc aggccagtca gccgcagact ttggaaagcc caacgaccat 2520
ggagagatgg gccgttgcca tgggtggacgg actccccggc tgggcttttg aattggcctt 2580
ggggactact cggtctctac tcagctccca cgggactcag aagtgcgccc ccatgctgcc 2640
taggggtactg tccccacatc tgtcccaacc cagctggagg cctgggtctct ccttacaacc 2700
cctggggccca gccctcattg ctggggggcca ggccttggat cttgaggggc tggcacatcc 2760
ttaatcctgt gccctgcct gggacagaaa tgtgggtcca gttgctctgt ctctcgtgg 2820
caccctgagg gcactctgca tcctctgtca ttttaacctc aggtggcacc cagggcgaat 2880
ggggcccagg gcagaccttc agggccagag ccctggcgga ggagaggccc ttgcccagga 2940
gcacagcagc agctcgccta cctctgagcc caggccccct ccctccctca gccccccagt 3000
cctccctcca tcttccctgg ggttctctc ctctcccagg gcctccttgc tccttcgttc 3060
acagctgggg gtccccgatt ccaatgctgt tttttgggga gtggtttcca ggagctgcct 3120
ggtgtctgct gtaaagtgtt gtctactgca caagcctcgg cctgcccctg agccaggctc 3180
ggtaccgatg cgtgggctgg gctaggtccc tctgtccatc tgggcctttg tatgagctgc 3240
attgcccttg ctcacctga ccaagcacac gcctcagagg ggccctcagc ctctcctgaa 3300
gccctcttgt ggcaagaact gtggaccatg ccagtcccgt ctggtttcca tcccaccact 3360
ccaaggactg agactgacct cctctgggtga cactggccta gggcctgaca ctctcctaag 3420
aggttctctc caagcccca aatagctcca ggcgcccctc gccgcccctc atggttaatt 3480
ctgtccaaca aacacacacg ggtagattgc tggcctgttg taggtggtag ggacacagat 3540
gaccgacctg gtcactcctc ctgccaacat tcagtctggg atgtgaggcg tgcgtgaagc 3600
aagaactcct ggagctacag ggacagggag ccatcattcc tgcctgggaa tcctggaaga 3660
cttctctgag gagtgcgct tcaatcttga ccttgaagat gggaaggatg ttctttttac 3720
gtaccaattc ttttgtcttt tgatattaaa aagaagtaca tgttcattgt agagaatttg 3780
gaaactgtag aagagaatca agaagaaaaa taaaaatcag ctgttgtaat cacctagcaa 3840
actggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3900
aaaaaaaaa aaaaaaaaaa 3919

```

<210> 117

<211> 7401

<212> DNA

<213> NM_014615.1| Homo sapiens KIAA0182 protein (KIAA0182), mRNA

<400> 117
aagcagttta gacaaacact gggcgacggt ggctccagca tgtatcagcc gaggtggagc 60
tgcgggggccc tggcatgaaa ggcagtgagcc atgagcccaa gtcccccttcg ctaggggatgc 120
tttccaccgc gaccaggacc accgccaccg tcaaccccct cacccttcg ccgctcaatg 180
gcgccctgggt gcccagcggc agccccgcca ccagcagcgc gctgtcggcc caggccgcgc 240
catcctccag ctttgccgcc gcgctgcgca agctcgccaa acaggcggag gagccagag 300
ggtcctcact gagcagcgag tcgtcccccg tgtcctctcc ggccaccaac cacagctccc 360
ccgccagcac acccaagcgc gtgcccattg gccctatcat cgtccccctt gggggccaca 420
gcgtgcccag ccccccccc gtggtgacca tcgctccaac caaaaccgtg aatggtgtct 480
ggaggagtga gagccggcag gatgccggct ccaggagcag cagtggagggt cggaacgcc 540
tcattgtgga gccccgcctc cctcaggaga aggcaggggg accagccatc ccctcgcacc 600
tgctcagcac cccctacccc ttcggcctct ccccagctc agttgtgcag gattcccgt 660
tcccgccact caacctccag cggcccgtgc accacgtggt gccccccagt accgtgaccg 720
aggactacct gagaagcttc cggccctacc acaccaccga cgacctccgc atgtcctcac 780
tgctccccc cggcctggac ccggccactg ctgcagccta ctaccacccc agctacctgg 840
ccccacaccc cttccccac ccggccttca ggatggacga ctctactgc ctgtctgccc 900
tgagggtccc gttctacccc atccccaccc ccggctccct gccccactg caccatcag 960
cgatgcacct gcacctctct ggggtccgct accctcccga gctctcccac tcatccctgg 1020
cagcgtgca ctcgagcgc atgtctggcc tcagcgcgga gaggctgcag atggacgagg 1080
agctaaggcg ggagagggag cgcgagcgc agcgcgagcg tgagcgtgag gctgaccgcg 1140
agcgggagaa ggaacgtgag cgcgaacgc agaaggagcg cgagcaagag aaggagcgtg 1200
agcgtgagaa ggagcgcgag cgcgagctgg agcgcagcg ggagcagcg gcccgggaga 1260
aggagctgct ggccgccaag gccctggagc ccagcttcct gcccgtagg ccgagctgcatg 1320
ggctgcgtgg ccatgccact gaggagcggg gcaagccctc ggagcagctg accccaaccc 1380
gagcagagaa gctgaaggat gccggcctgc aggcgccc aa gccgtccaa cacccttgc 1440
atccggtgcc caccacac cacacggtgc ccagcctcat ctccaacat ggcatcttct 1500
ctctgcctag cagcagtgt gccacagccc tgctgatcca gcgcaccaat gaggaggaga 1560
agtggctggc gcggcagcgg cggctgcggc aggagaagga ggaccggcag tctcagggtgt 1620
ccgagttccg gcagcaggtg ctggagcagc acctggatat gggccggccc ccggtgccgg 1680
cggaggcaga gcacaggccg gagagcacca ccaggccagg accaaaccgt cacgagccag 1740
gtggccgtga ccctccgcag cacttttggg ggccaccacc tctgatttcg cccaagcccc 1800

agctccatgc tgcacccacg gccctctgga accccgtgtc cctgatggac aacaccttgg	1860
agacgcggcg ggccgaaagc cactctctgc acagccaccc ggctgcattt gagcccagcc	1920
gccaggcagc cgtgccgctg gtgaagggtg agcgggtctt ctgcccggag aaagcagagg	1980
agggggccacg gaagcgtgag cctgcccctc tggacaagta ccagccacct ccgccgccac	2040
cacgagaggg agggagcctg gagcaccagc ccttcctgcc cggggccggg cccttcctgg	2100
ctgagctcga gaagtccacc cagaccatcc tgggccagca gcgggcctcc ctcccacagg	2160
cggccacctt cggggagctc agcggacccc tgaagcctgg ctgcacctac cggccccag	2220
tgccacgggc ccccgacct gcctacatct atgatgagtt cctgcagcag cgccggaggc	2280
tggtcagcaa gctggacctg gaggagcgca ggcgccggga ggcccaggag aaagggtact	2340
actacgacct cgatgactct tacgacgaga gcgatgagga ggaggtcagg gccacctcc	2400
gttgctggc cgagcagccg cccctcaaac tggacacgtc ctctgagaag ctagagtttt	2460
tgcaactttt tggcttgacc acccaacagc agaaggagga attggtggcc cagaagcgga	2520
ggaagcggcg gaggatgctg cgagagagaa gcccgctgcc cccaacaatt cagagcaagc	2580
ggcagacgcc ttaccgaga ctggcgctgt ctaccgcta cagccctgat gagatgaaca	2640
acagtccaa cttcgaagaa aagaagaagt tcctgacct cttcaacctg acccatca	2700
gcgctgagaa gaggaagac aaagagagac ttgttgaaat gctccgtgcc atgaagcaga	2760
aggcactgtc agcagcagtg gccgactcct tgacaaactc tccgaggagc agtcctgccg	2820
tctccctgag tgaaccagcc acgcagcaag cctctctgga tgtggagaag ccggttggtg	2880
ttgctgcttc cttgtctgac atcccaaagg ccgaggagcc tgggaagctg gaacaggctc	2940
ggccccagga gctgtcgaga gtccaggagc tagctcctgc cagcggggag aaggccaggc	3000
tgagcgaggc ccctggaggc aaaaagagtc tgagcatgct tcactatatc cggggcgctg	3060
cacccaagga cattcctgtg ccgctgtccc acagcaccaa tgggaagagc aagccgtggg	3120
agccctttgt ggcagaagag tttgcacatc agttccacga gtcagtgtg cagtccaccc	3180
agaaggccct gcagaagcat aaaggagcg tggctgtgct gtctgcagag cagaaccaca	3240
aggttgacac gtccgtccac tacaacattc ctgagctgca gtcctccagc cgcgccccctc	3300
cacccagca caatgggcag caggagcccc cactgcaag gaaggcccc ccaaccagg	3360
agttggaccg ggactcgag gaggaggaag aggaggatga tgaagatgga gaagatgagg	3420
aggaagtccc caagcgcaag tggcaaggga tcgaggccgt ttttgaagct taccaggaac	3480
acatagaaga gcaaatctg gagcggcagg tggtacagac acaatgtaga cgactggagg	3540
ccggcacta cagcctcagc ctgacggcag agcagctctc ccacagcgtg gcggagttga	3600
ggagccagaa acagaagatg gtctcagaaa gggagcggct ccaggcagaa ctggaccact	3660
tacgaaagtg cttgctctg cctgcaatgc actggcctag gggctacctg aagggatatc	3720
ccagggtgacg gtttcccttg cactaggccg aacctatagt atagaaatat tatctatctt	3780
attaccttga atatttaata tttttcactg ggaggtttga agcttataaa atgagaatgt	3840

gccatgcatg aagcaaagga ttccaggctc cagaaaaaat gaatgaactc accttgacgt	3900
caatgcaatt gaatcacctg tgtcattcag cgagcaacca atgtaggatt gcccacagtt	3960
tttcttttta aaggtggttt tcgcccttcc tctcccatat tttttcttaa tctgaacatg	4020
aaggctccat tagcaacact aaaacttgat cattaacagc cccctgtgca tatgagtggg	4080
tcaaaccggt tctgttcttt cttgtgttgc catgttacta tgcctcaagc ccagtttgct	4140
tttgccgcag cgatggggcc agtctcattc ctcccagga gtgaaacttg cttcagctga	4200
aaaggttggg tgcattgtca gtaaaaaggg cttatttggt tcattttact ttcctgcaaa	4260
attttcttca aagcaacaag tcctaggagc acacaaagca acccaaaggc ttttccctgg	4320
aaaagctctt tcttacctaa agataaaacc aattcacaaa ctgaaggtag ctttttatta	4380
ctccgtgggg agcatgtaca gagctctgtg tatacacagc ttcacacca ccagattggt	4440
actacagtgg gttgggtttt catacagacg taaattttga gagaaaagtc aaaggtgctt	4500
cagccttgta ctgtgtatat atattaaaaa aaaaacaaag ttttgtatgt ttttattact	4560
ttaactattg ttataaaaag cctgccattt ttaatatgtg gtttggggga ttttggttg	4620
tttttctgt ttgggggttt tgtttgttgt tttgggtttt tttgggcaa aaaaaaaaaa	4680
aaaccttgct tttagtgttt gtactgctgc tggtcaggac attaaaatat tgaagtgttt	4740
ttaaaaatta aagaagaaga aaagtaaaag agcttaccac tggcgcctat gcgatcactt	4800
catttttagt ttgagttgca ccagaagctg ccgtagaaag ccatgcgcta ctgcttacct	4860
cctccactcc ccctgcctgc cccagcatc tggacaagct aatagcaaatt attaccatt	4920
gctatcaagg gaggggggg tagtctgtag aacccatgtg tgacagtcatt gtgcacacat	4980
gggcgggggc ttttaaaaac ctttcaggaa gtcaatgatt tctgtgattg atataattct	5040
aaggtgtctg agagcaggta cagaatagga acttcagagg ctttgtttta acgcaaagct	5100
ttgtaaaagc cacaaggctt gagctgaacc cctccttttt gaacttactg tgacaagcac	5160
aggaacggtc agaaactggg ctcatcacac caaggcaaag caacgggcga gtcttcctcc	5220
ttgtcctagt tactgcctat ggaggcagtg tttagatcaa gaaggcctct cttgctccca	5280
agggccctca ccagaggcca gggctgccag tcaactggtc ggggggtgga ggcctgagct	5340
gagggcaggg tgcttgacct gtgtgccggc tgctcactgc tgtgaccagc agccgagccc	5400
ttggccctag cccttgctgc gcagaacagc ttgctggcag ctggcatcgt gtcgctttat	5460
ctgccccgc acagtttgct ttgtacgtct gccaagaatc ttccagttat tagcaaactc	5520
agacgaatgt accgccagta ttatcagcag tcaacaagca ctttcctctc cacagaagca	5580
gctggaagag aactcgaggg gctgtgctgc aggcctcccc tcgaaagaca ctgggaggtc	5640
agcatgttcc acaggtgttc agagggagtc tgctacaaac tatcagggca aaatctcact	5700
ggatttctcc actgaaaacc tacttgaggt ttctggtctg aaggcttaag agtcacatct	5760
tagcacttcc gctctcaggc ctcctcctcc atcacagatg tctggatgct tttggaaatg	5820

```

gccttggcta aagtaaaagg gaaaagtaga tccgataact taaaaacgta gctcatccct 5880
taccatccaa ggggcactcc cttgggttga ttttctatga cagcacaggg gacaggtggc 5940
acaccatgag aggtctgccc aggggtgggag cagtgtcact gtgctagcaa tagttggctt 6000
ctccccctgtc agtggaacc ccacttctgc ccggcccttg agcttcttgc ccactgtctc 6060
cccatccttc cacctacttg tggcgatctg agtactctac tcttgctcaa gaagtaatac 6120
gacaatcaga atacaaacca gtaaggcaac acgaataaac taagaaaaag gtaagaactg 6180
tctcaaaaac gaaagcacac cacccaagac acagtaccca gtcattggtt ccccatccaa 6240
ctattagttt catactttga aaacttactt tcagattatt ctcaaagaac acagtagcac 6300
ctaaatctgt tttcaattgg gcttaaaaat tgacatgcaa tctcttaagt tttttgttca 6360
gctacttcac actgagtacc tcaaactctgc tctggagtcg attatgccac ctgtgtgtca 6420
ggatgcacct gaaagccctc ggctcgggtc ttagaccatc ttcctacatt acctggaagg 6480
gagctgccat ctgtccctct gcagagggat accttccaat agtaaattat ctggttcctc 6540
actgaaacaa gttatttttg cttcatatag tcagagtcag actgacatga taaaatatca 6600
tgttccta at ctgtgtctc agataagtga ccaagacggg actttccaca ttttagtcta 6660
cattcta atc ttaaaggaat aaagcactga attgggacta acattctgat aggttgcacc 6720
cttaagagta ttcagagagc atcaaaagga gccacacct tcagcagtga aggattctaa 6780
cacagga at ctgcagttg tagcagaatg gtattttcct caagtagctc ataatactgc 6840
caa atc tcaa aagttaagct gaatttcaca ccagatccta cccctttccc tgagccacat 6900
gtttcacaca agt gtagaaa atgccaggga tccaccacaa gatggagatg gtcagcacaa 6960
accgattctg ttcctcttta aagtgtatat tagccactta gcaatctcta tattctttca 7020
agtaaccaag ctgttgactt tcttactact tgcagtagcc tgtccccaac ttttccatcc 7080
agtgtttaac ctaaaaaact ccttaactct gccttgacct gaggaagacc atgctaactg 7140
gtgttatttt gtatgtaccc tgtgctta at tctataacag taaaccccat acgcagggtg 7200
gagggaggaa caccggtgcc tcggtcactc tgggggcagt ttagatgctg tgaaattaaa 7260
cctgttctaa gtgtacttgt ttgaatta at tgtattgtaa tattatttgt tgaatgtagt 7320
aattaggtat ttatgaatat attgctgtaa tttctgacaa catccaaaaa ataaaatctt 7380
cctaaattat gttaaaaaaa a 7401

```

<210> 118

<211> 2745

<212> DNA

<213> NM_033542.1| Homo sapiens chromosome 20 open reading frame 35
(C20orf35), mRNA

<400> 118

tttttccccg gaaacgtttc tttcctacgc agccgctcct gccgccgtgg tcgctggagc	60
tttgctcttc taggccggca gcgcctctcc tccatggtcc tgtctgtcag cgctgttttg	120
ggagcccgcc ggtgaggccg ggccacgctc agacacttcg atcgtcgagt ctgtcactgg	180
gcatggcggg tcagttccgc agctacgtgt gggacccgct gctgatcctg tcgcagatcg	240
tcctcatgca gaccgtgtat tacggctcgc tgggcctgtg gctggcgctg gtggacgggc	300
tagtgcaag cagccccctc ctggaccaga tgtttgacgc cgagatcctg ggcttttcca	360
cccctccagg ccggctctcc atgatgtcct tcatcctcaa cgccctcacc tgtgccctgg	420
gcttgctgta cttcatccgg cgaggaaagc agtgtctgga tttcactgtc actgtccatt	480
tctttcacct cctgggctgc tggttctaca gctcccgttt cccctcggcg ctgacctggg	540
ggctgggtcca agccgtgtgc attgcaactca tggctgtcat cggggagtag ctgtgcatgc	600
ggacggagct caaggagata cccctcaact cagccccata atccaatgtc tagaatcagg	660
ccctttggac atcctgctga cacttggggc ccttaacacc ttgggctgct cagaccctcc	720
agatgaggtc cagcccagat ctgagaggaa ccctggaaat gtgaagtctc tgttggtttg	780
ggagagatag tgagggcctg tcaaagaagg caggtagcag tcagcatgac agctgcaaga	840
atgacctctg tctgttgaag ccttggtatc tgagaggtca ggaaggggac ctctttgagg	900
gtaataacag aattggaacc atgccactct tgagccacaa tacctgtcac cagcctgttg	960
ttttaagaga gaaaaaaaaat caaggatatc tgattggagc aaaccacttc tttagtcatc	1020
tgtcttacct ccctgggaca gctgttacct ttgcagtgtt gccgaatcac agcagttacc	1080
tttgacagtgt tgccgaatca cagcagttct gttggagaaa cgcttggttt ccggatccag	1140
agccacagaa agaaatgtag gtgtgaagta ttaggctgct gtcagggaga ggatggcaga	1200
tggaggcatc aagcacaagg aaaatgcaca acctgtgccc tgttatacac acgttcatgt	1260
gcacccaaga acctatgact ttcttccagt tccttctacc aggtcccat cctgctgcc	1320
gctctcaaca tagcaggcca taggaccag agaagaatcc cagcgttgct caaagtctaa	1380
ccatcataaa gacactgcct gtcttctagg aatgaccagg caccagctc ccactggact	1440
ccaatttttt ttctgcctt atttagaatt ctttggcggg aagggtatga tgggttccca	1500
gagacaagaa gcccaacctt ctggcctggg ctgtgctgat agtgctgagg gagataggaa	1560
tttgctgcta agatttttct ttgggggtgga gtttctctg tgaggggctt gcagctatcc	1620
ttcctgtgta taaaaataca gtattttcca tggttctgcc tgcacttact ttgtaatgcc	1680
acggttgaga ttgagagaga tcagcgcagc caggcaaggg aactttaag aattattagg	1740
ccaccttctc ctttctctgg accccagagt cattcctcca tttgggttaa atactcagt	1800
cagggaactc ttacatcctg tctccttcac ttgcagcgtc ccctgctatg cctcagggtga	1860
accacataat tcttggtttt ccgttcctac ttgctagtga tttctgaaca tgttcaatgg	1920
agcggcacac agtctagacc cacttccgca ttgaaacctt cactgttcct ctttggtttc	1980
ttcagagctt tccaagaga gctgtcagtt ttcagctgtc agtaacacaa atgagtttat	2040

```

ggtaacacaa atgagttttg ctatctctct gagaagctca tctgacctcc tgactctcag 2100
ccctacagag tagggagttg atgctgacag gatgaagatt taggaataaa tatgcctggg 2160
aagagactgg gaaggttcta gggtgaggca cctcagtaac tcatgggtacc ttggccaagt 2220
tggaaggaag cagtttggtta atgaggcaca gtaatcctgg ctgcaggggtc taggaggtaa 2280
gaccagctgg gatgaccttc cctgggttaa tcaatttccc tctagacaac acaaactgca 2340
ggcatgtgac taactttgaa agaacaccca tcatgtggct gctgtcacc ttgaccagcc 2400
gtgggtgggg ttactccatc tgtgggttga gcgcctcttt gggattcact tcaaggctct 2460
gtgcctatctt ttctgcatac cttctgtgat gacaaatctc tgtcccctga gtgttaattt 2520
gattttttaga aatggccaaa agtcacgtga tccaaacttt ttttcagtaa tatggagact 2580
gagctgcatg gtagttgggg atcaaaaata tgtgacctta atgagatttt tatgatttct 2640
aaagtaacaa taaaagcagc ttttagagtt gagttccaga gagggcaggg caatggcagt 2700
gacatgtttg tcattttaat aataaataac atctattgag tgctt 2745

```

<210> 119

<211> 2152

<212> DNA

<213> NM_138932.1| Homo sapiens apobec-1 complementation factor (ACF),
transcript variant 2, mRNA

```

<400> 119
tttgatatga cgattagagc ataacccgag tgacacgttg aattcgccat aatcaaggaa 60
acctttttccg ggtggggatc tctgaaatta ctcagataac agtgctgtgc caaaaacctg 120
tggtttttct ctacaaaaat tattgagcaa ccctaattaa cctgattttt tgctgataat 180
cactctcaat ggaatcaaat cacaaatccg gggatggatt gagcggcact cagaaggaag 240
cagccctccg cgcactgggtc cagcgcacag gatatagctt ggtccaggaa aatggacaaa 300
gaaaatatgg tggccctcca cctgggttggg atgctgcacc ccctgaaagg ggctgtgaaa 360
ttttttattgg aaaacttccc cgagaccttt ttgaggatga gcttatacca ttatgtgaaa 420
aaatcggtaa aatttatgaa atgagaatga tgatggattt taatggcaac aatagaggat 480
atgcatttgt aacattttca aataaagtgg aagccaagaa tgcaatcaag caacttaata 540
attatgaaat tagaaatggg cgcctcttag gggtttgtgc cagtgtggac aactgccgat 600
tatttgttgg gggcatccca aaaacaaaa agagagaaga aatcttatcg gagatgaaaa 660
aggttactga aggtgttgtc gatgtcatcg tctaccaag cgctgcagat aaaacaaaaa 720
accgaggctt tgccttcgtg gagtatgaga gtcatcgagc agctgccatg gcgaggagga 780
aactgctacc aggaagaatt cagttatggg gacatggtat tgcagtagac tgggcagagc 840
cagaagtaga agttgatgaa gatacaatgt cttcagtga aatcctatat gtaagaaatc 900

```

```

ttatgctgtc tacctctgaa gagatgattg aaaaggaatt caacaatatc aaaccaggtg      960
ctgtggagag ggtgaagaaa attcgagact atgcttttgt gcacttcagt aaccgagaag    1020
atgcagttga ggctatgaaa gctttaaatg gcaagggtgct ggatggttcc cccattgaag    1080
tcaccctagc aaaaccagtg gacaaggaca gttatgttag gtatacccga ggcacaggtg    1140
gaagggggcac catgctgcaa ggagagtata cctactcttt gggccaagtt tatgatccca    1200
ccacaaccta ccttggagct cctgtcttct atgcccccca gacctatgca gcaattccca    1260
gtcttcattt cccagccacc aaaggacatc tcagcaacag agccattatc cgagcccctt    1320
ctgttagaga aatttacatg aatgtacctg taggggctgc gggagtgaga ggactgggcg    1380
gccgtggcta tttggcatac acaggcctgg gtcgaggata ccagggtcaa ggagacaaaa    1440
gagaagacaa actctatgac attttacctg ggatggagct caccccaatg aatcctgtca    1500
cattaaacc ccaaggaatt aaactcgctc cccagatatt agaagagatt tgtcagaaaa    1560
ataactgggg acagccagtg taccagctgc actctgctat tggacaagac caaagacagc    1620
tattcttgta caaaataact attcctgctc tagccagcca gaatcctgca atccaccctt    1680
tcacacctcc aaagctgagt gcctttgtgg atgaagcaaa gacgtatgca gccgaataca    1740
ccctgcagac cctgggcatc cccactgatg gaggcgatgg caccatggct actgctgctg    1800
ctgctgctac tgctttccca ggatattgctg tccctaattgc aactgcaccc gtgtctgcag    1860
cccagctcaa gcaagcggta acccttggac aagacttagc agcatataca acctatgagg    1920
tctacccaac ttttgtagtg actgcccagag gggatggata tggcaccttc tgaagatgct    1980
tttttaaatt taagaataag acacacaaaa ctctattaaa aaaaaaaaaa aaataaacct    2040
ctaactcggg cccaatgat cataaataat atgtttccta aagaaatgcc tttccagaga    2100
ctgtatagct tataccaatt atagaatcat gaagtaaaaa aaaaaaaaaa aa          2152

```

<210> 120

<211> 3010

<212> DNA

<213> NM_145343.1| Homo sapiens apolipoprotein L, 1 (APOL1), transcript variant 2, mRNA

```

<400> 120
actttccctt tcgaattcct cggtatatct tggggactgg aggacctgtc tggttattat      60
acagacgcat aactggaggt gggatccaca cagctcagaa cagctggatc ttgctcagtc    120
tctgccaggg gaagattcct tgacttctgg ggtgatggag aagaaacagg ctgtgctgtg    180
tccctaattg gaaacgtggc tgagacaggg gagtgagaag ggtgcgttgc agaatggtgc    240
ctgtggcatg atgccagctt tgcaatcatg agattcaaaa gccacactgt ggaattgagg    300
aggccctgca gcgacatgga gggagctgct ttgctgagag tctctgtcct ctgcatctgg    360

```

atgagtgcac ttttccttgg tgtgggagtg agggcagagg aagctggagc gaggggtgcaa	420
caaaacgttc caagtgggac agatactgga gatcctcaaa gtaagcccct cggtgactgg	480
gctgctggca ccatggaccc agagagcagt atctttattg aggatgccat taagtatttc	540
aaggaaaaag tgagcacaca gaatctgcta ctcttgctga ctgataatga ggcctggaac	600
ggattcgtgg ctgctgctga actgcccagg aatgaggcag atgagctccg taaagctctg	660
gacaaccttg caagacaaat gatcatgaaa gacaaaaact ggcacgataa aggccagcag	720
tacagaaact ggtttctgaa agagtttcct cggttgaaaa gtgagcttga ggataacata	780
agaaggctcc gtgcccttgc agatgggggtt cagaaggctcc acaaaggcac caccatcgcc	840
aatgtggtgt ctggctctct cagcatttcc tctggcatcc tgaccctcgt cggcatgggt	900
ctggcacctt tcacagaggg aggcagcctt gtactcttgg aacctgggat ggagttggga	960
atcacagccg ctttgaccgg gattaccagc agtaccatgg actacggaaa gaagtgggtg	1020
acacaagccc aagcccacga cctggtcata aaaagccttg acaaattgaa ggaggtgagg	1080
gagttttttg gtgagaacat atccaacttt ctttccttag ctggcaatac ttaccaactc	1140
acacgaggca ttgggaagga catccgtgcc ctgagacgag ccagagccaa tcttcagtca	1200
gtaccgcatg cctcagcctc acgcccccg gtcactgagc caatctcagc tgaaagcgg	1260
gaacaggtgg agaggggttaa tgaaccagc atcctggaaa tgagcagagg agtcaagctc	1320
acggatgtgg cccctgtaag cttctttctt gtgctggatg tagtctacct cgtgtacgaa	1380
tcaaagcact tacatgaggg ggcaaagtca gagacagctg aggagctgaa gaaggtggct	1440
caggagctgg aggagaagct aaacattctc aacaataatt ataagattct gcaggcggac	1500
caagaactgt gaccacaggg cagggcagcc accaggagag atatgcctgg caggggccag	1560
gacaaaatgc aaactttttt ttttttctga gacagagtct tgctctgtcg ccaagttgga	1620
gtgcaatggt gcgatctcag ctactgcaa gctctgcctc ccgtgttcaa gcgattctcc	1680
tgccttgccc tcccaagtag ctgggactac aggcgcctac caccatgccc agctaatttt	1740
tgtattttta atagagatgg ggtttcacca tgttggccag gatggtctcg atctcctgac	1800
ctcttgatct gccaccttg gcctcccaa gtgctgggat tacaggcgtg agccatcgct	1860
tttgaccaa atgcaaacat tttattaggg ggataaagag ggtgaggtaa agtttatgga	1920
actgagtgtt agggactttg gcatttccat agctgagcac agcaggggag gggttaatgc	1980
agatggcagt gcagcaagga gaaggcagga acattggagc ctgcaataag ggaaaaatgg	2040
gaactggaga gtgtggggaa tgggaagaag cagtttactt tagactaaag aatatattgg	2100
ggggccgggt gtagtggtct atgcctgtaa tccgagcact ttgggaggcc aaggcgggcg	2160
gatcacgagg tcaggagatc gagaccatcc tggctaacac agtgaaaccc cgtctctact	2220
aaaaatacaa aaaattagcc gggcatggtg gcgggcgcct gtagttccag ctaactgggc	2280
ggctgaggca ggagaatggc gtgaacctgg gaggtggagc ttgcagtgag ccgagatatc	2340

```

gccactgcac tccagcctgg gtgacagagc gagactccat ctcaaaaaaa aaaaaaaaaa 2400
gaatatattg acggaagaat agagaggagg cttgaaggaa ccagcaatga gaaggccagg 2460
aaaagaaaga gctgaaaatg gagaaagccc aagagttaga acagttggat acaggagaag 2520
aaacagcggc tccactacag acccagcccc aggttcaatg tcctccgaag aatgaagtct 2580
ttccctggtg atgggtcccct gccctgtctt tccagcatcc actctccctt gtcctcctgg 2640
gggcataatc cagtcaggca gcggttcctt gatgatggtc attgggggtg ttgtcatgtg 2700
atgggtcccc tccagggttac taaaggggtg atgtcccctg cttgaacact gaagggcagg 2760
tggtgggcca tggccatggt cccagctga ggagcagggtg tccctgagaa cccaaacttc 2820
ccagagagta tgtgagaacc aaccaatgaa aacagtcca tcgctcttac ccggttaagta 2880
aacagtcaga aaattagcat gaaagcagtt tagcattggg aggaagctca gatctctaga 2940
gctgtcttgt cgccgcccag gattgacctg tgtgtaagtc ccaataaact cacctactca 3000
tcaagctgga 3010

```

<210> 121

<211> 2759

<212> DNA

<213> NM_080796.1| Homo sapiens death associated transcription factor 1 (DATF1), transcript variant 2, mRNA

```

<400> 121
tctagccccg cgccatctcg gtggccgtcc gccactccg cggcgttcgg ggaaatggct 60
gcgagaccct agaggcctgc ggcctgcgga gcttactcca cgggaacagc ctctagataa 120
tctgagttgt tgaaaatacg aagcctgtta ctcgtgaaca gtggctgaca acagtgttgt 180
tgtgagcctg gctgtctgct tggaccaga ggtttcgtct gccagggttt ttggttgtat 240
ttaggatttc agggaaaagt gtccaagctt tcagtgttg agcaggatg gacgacaaag 300
gcgacccgag caatgaggag gcacctaagg ccatcaaacc caccagcaa gagttcagga 360
aaacatgggg ttttcgaagg accactatcg ccaagcgaga gggcgagg gacgcggagg 420
ctgaccact ggagccgcca ccccccacagc agcagctggg cctgtccctg cggcgagtg 480
ggaggcagcc caagcgcact gagcgcgtg agcagttcct gaccattgcg cggcgccgcg 540
gcaggaggag catgcctgtc tccctggagg attctggtga gccacgtcc tgccccgcca 600
cagacgccga gacagcctcc gagggcagcg tggaaagcgc ttctgagacc agaagcggcc 660
cccagtctgc ttccacagct gtgaaggaac gaccagcctc ttctgaaaag gtgaaaggag 720
gggatgacca cgatgacacc tccgatagtg acagcgatg cctgacctg aaagagcttc 780
agaatcgctt tcgcaggaag cgggaacagg agcccactga gaggcccctg aaagggatcc 840
agagtcgcct gcggaagaag cgccgggagg aggggtccgc cgagactgtg ggctccgagg 900

```

```

ccagtgcacac tgtggagggc gtcctgcca gtaagcagga gcccgagaac gatcaggggg 960
ttgtgtccca ggctgggaaa gatgcagag agagtaagtt ggagggaaa gcggtcagg 1020
acatcaaaga tgaggagcct ggagacttg gccgaccgaa gcctgaatgt gagggttacg 1080
acccaacgc cctgtattgc atttgccgcc agcctcaca caacaggttt atgatttgct 1140
gtgaccgctg tgaagaatgg ttcatggcg attgtgtggg catttctgag gctcgaggga 1200
ggctttttgga aaggaatggg gaagactata tctgccccaa ctgcaccatt ctgcaagtgc 1260
aggatgagac tcattcagaa acggcagatc agcaggaagc taaatggaga cctggagatg 1320
ctgatggcac cgattgtaca agtataggaa caatagagca gaagtctagc gaagaccaag 1380
ggataaaggg tagaattgag aaagctgcaa atccaagtgg caagaagaaa ctcaagatct 1440
tccagcctgt gatagaggcg cctggtgcct caaatgtat tggccccggg tgctgtcacg 1500
tggcgagcc cgactcgggt tactgcagta atgactgtat cctcaaacac gccgcagcga 1560
caatgaagtt tctaagctca ggtaaagaac agaagccaaa gcctaaagaa aagatgaaga 1620
tgaagccaga gaagcccagt cttccgaaat gcggtgctca ggcagggtatt aaaatctctt 1680
ctgtgcacaa gagaccagct ccagaaaaaa aagagaccac agtgaagaag gcagtgggtg 1740
tccctgcgcg gagtgaagca ctcggaagg aagcagcttg tgagagcagc acgccgtcgt 1800
ggcgagcga tcacaattac aatgcagtaa agccagaaaa gactgctgct ccctcgccgt 1860
cactgttgta taaatgtatg tatcacctag gggttggcct cctggacccc tcccgttctt 1920
tctggatagc catcccctgg gcctgtccag gactgggagt tgcagctttg tgtaagctg 1980
atcacagaca ccggctgcac catcagcggg aagcagagcc catgtccagg atgcctcctg 2040
ctgccctgtg tccatcccta gtctgtcagg acttctgtc actgttttcc aaagctgtaa 2100
acctcactgg tgaacgttca ccttaatgat tgattcttta atctctgttt tcaactctcag 2160
gctctggtaa gtattcgtat tctcttcac ccagtctgat tgcatagcca cactgcccg 2220
cacgccacat ccaccctgt ctgcacatga gttgttctga caacagcgct gtatacgctt 2280
cagtttttcc acattgtcca cggccagcac atgaaagcat cacttctttt ttatgttggtg 2340
ggaatctttg caagttagtg ttgcatctga ttttcagggtg tacatttatt tttgactggg 2400
cagatagggg attttttttt ttccatgtcc gattcacacg ctacacacc acatgaacac 2460
attcgaactt cgaaggccac aactcctgc ttcataggcc ccacggtaag tgagttcaca 2520
cctagaacac tgcctgacc gcaggacgcg tgccttgac ttggtattct acatgtgact 2580
ggctttcttg ccctcgtctc ttgaatgttt agactcttaa gatcatatcc tgcccaaat 2640
ttcaaattaa tgaaatgaag atatttcaa cagatctttg aaacctcaga ttctgtggtg 2700
caattttaat gtttcttgt ttctcagttt tctgctataa aactattttc aattcagtc 2759

```

<210> 122

<211> 781

<212> DNA

<213> NM_177953.1| Homo sapiens dynein, cytoplasmic, light polypeptide 2A (DNCL2A), transcript variant 2, mRNA

```

<400> 122
cgagaaagg caCaggactc gctaagtgtt cgctacgcgg ggctaccgga tcggtcggaa      60
atggctgaag tggagagatc gcctgagccc aggaggtcaa ggctacagtg agccgtgact      120
gcaccactgc actccaccct gggcagaggt ggaggagaca ctgaagcgac tgcagagcca      180
gaagggagtg caggggaatca tcgtcgtgaa cacagaaggc attcccatca agagcaccat      240
ggacaacccc accaccaccc agtatgccag cctcatgcac agcttcatcc tgaaggcacg      300
gagcaccgtg cgtgacatcg acccccagaa cgatctcacc ttccttcgaa ttcgctccaa      360
gaaaaatgaa attatgggtg caccagataa agactatttc ctgattgtga ttcagaatcc      420
aaccgaataa gccactctct tggctccctg tgtcattcct taatttaatg cccccaaga      480
atgttaatgt caatcatgtc agtggactag cacatggcag tcgcttgga cccactcaca      540
ccaatccagt gaccgtgtgt gggctggcgg ctcttctccc ccaccaacgg aaccctgtg      600
tgcaccaacc tccccagag ctccggagcg ccctctctc acttccaggt tttggagcaa      660
gagcttgcat gaagcccgc cccagcttcc ttctgacctt cagttcactt tgcgcacct      720
ggagaaagct gtttttcttt aactaaaaat aacaaaaatg cttaaaaaaa aaaaaaaaaa      780
a                                                                                   781

```

<210> 123

<211> 841

<212> DNA

<213> NM_022873.1| Homo sapiens interferon, alpha-inducible protein (clone IFI-6-16) (G1P3), transcript variant 3, mRNA

```

<400> 123
gaaccgttta ctcgctgctg tgcccatcta tcagcaggct ccgggctgaa gattgcttct      60
cttctctcct ccaaggtcta gtgacggagc ccgcgcgcgg cgccaccatg cggcagaagg      120
cggtatcgct tttcttgtgc tacctgctgc tcttcacttg cagtggggtg gaggcaggtg      180
agaatgcggg taaggatgca ggtaagaaaa agtgctcgga gagctcggac agcggctccg      240
ggttctggaa ggcctgacc ttcatggccg tcggaggagg actcgcagtc gccgggctgc      300
ccgcgctggg cttcaccggc gccggcatcg cggccaactc ggtggctgcc tcgctgatga      360
gctggtctgc gatcctgaat gggggcggcg tgcccgccgg ggggctagtg gccacgctgc      420
agagcctcgg ggctgggtggc agcagcgtcg tcataggtaa tattggtgcc ctgatgggct      480
acgccacca caagtatctc gatagtgagg aggatgagga gtagccagca gctcccagaa      540

```

```

cctcttcttc cttcttggcc taactcttcc agttaggatc tagaactttg cctttttttt 600
tttttttttt tttttttgag atgggttctc actatatgtt ccaggctaga gtgcagtggc 660
tattcacaga tgcgaacata gtacactgca gcctccaact cctagcctca agtgatcctc 720
ctgtctcaac ctcccaagta ggattacaag catgcgccga cgatgcccag aatccagaac 780
tttgtctatc actctcccca acaacctaga tgtgaaaaca gaataaactt caccagaaa 840
a 841

```

<210> 124

<211> 4652

<212> DNA

<213> NM_183047.1| Homo sapiens protein kinase C binding protein 1 (PRKCBP1), transcript variant 1, mRNA

```

<400> 124
gtgagaacta ggagcctgtc ctccatgttt tataagtatt gacattacac agtgттаааа 60
atgcatccac agagcttggc tgaagaggaa ataaaaacag aacaggaggt ggtagagggc 120
atggatatct ctactcgctc caaagatcct ggctctgcag agagaacagc ccagaaaaga 180
aagttcccca gccctccaca ttcttccaat ggccactcgc cgcaggacac atcaacaagc 240
cccattaaaa agaaaaagaa acctggctta ctgaacagta acaataagga gcagtcagaa 300
ctaagacatg gtccgtttta ctatatgaag cagccactca ccacagaccc tgttgatgtt 360
gtaccgcagg atggacggaa tgatttctac tgctgggttt gtcaccggga aggccaagtc 420
ctttgctgtg agctctgtcc ccgggtttat cacgctaagt gtctgagact gacatcggaa 480
ccagaggggg actggttttg tcctgaatgt gagaaaatta cagtagcaga atgcatcgag 540
accagagta aagccatgac aatgctcacc attgaacagt taccctacct gctcaagttt 600
gccattcaga aaatgaaaca gccagggaca gatgcattcc agaagcccgt tccattggaa 660
cagcaccttg actatgcgga atacatcttc catccaatgg acctttgtac attggaaaag 720
aatgcgaaaa agaaaatgta tggctgcaca gaagccttcc tggctgatgc aaagtggatt 780
ttgcacaact gcatcattta taatggggga aatcacaaat tgacgcaaат agcgaaagta 840
gtcatcaaaa tctgtgaaca tgagatgaat gaaatcgaag tatgtccaga atgttatcta 900
gctgcttgcc aaaaacgaga taactggttt tgtgagcctt gtagcaatcc acatcctttg 960
gtctggggcca aactgaaggg gtttccattc tggcctgcaa aagctctaag ggataaagac 1020
gggcagggtcg atgcccгatt ctttggacaa catgacaggg cctgggttcc aataaataat 1080
tgctacctca tgtctaaaga aattcctttt tctgtgaaaa agactaagag catcttcaac 1140
agtgccatgc aagagatgga ggtttacgtg gagaacatcc gcaggaagtt tggggttttt 1200
aattactctc catttaggac accctacaca cccaacagcc agtatcaaat gctgctcgat 1260

```


cccaccaacc	ccagcgccgg	cactgcCaag	atagacaagc	aggagaaggt	caagctcaac	1320
tttgacatga	cggcatcccc	caagatCctg	atgagcaagc	ctgtgctgag	tgggggcaca	1380
ggccgcccga	tttccttgtc	ggatatgccc	cgctccccc	tgagcacaaa	ctcttctgtg	1440
cacacgggct	ccgacgtgga	gcaggaTgct	gagaagaagg	ccacgtcgag	ccacttcagt	1500
gcgagcgagg	agtccatgga	cttcctggat	aagagcacag	cttcaccagc	ctccaccaag	1560
acgggacaag	cagggagttt	atccggCagc	ccaaagccct	tctctcctca	actgtcagct	1620
cctatcacga	cgaaaacgga	caaaacCtcc	accaccggca	gcacccctgaa	tcttaacctg	1680
gatcgaagca	aagctgagat	ggatttGaag	gagctgagcg	agtcggtcca	gcaacagtcc	1740
accctgttc	ctctcatctc	tcccaagcgc	cagattcgta	gcaggttcca	gctgaatctt	1800
gacaagacca	tagagagttg	caaagcAcaa	ttaggcataa	atgaaatctc	ggaagatgtc	1860
tatacggccg	tagagcacag	cgattcGgag	gattctgaga	agtcagatag	tagcgatagt	1920
gagtatatca	gtgatgatga	gcagaaGtct	aagaacgagc	cagaagacac	agaggacaaa	1980
gaaggttgtc	agatggacaa	agagccatct	gctgttaaaa	aaaagcccaa	gcctacaaac	2040
ccagtggaga	ttaaagagga	gctgaaAagc	acgtcaccag	ccagcgagaa	ggcagaccct	2100
ggagcagtca	aggacaaggc	cagccctgag	cctgagaagg	acttttccga	aaaggcaaaa	2160
ccttcacctc	accccataaa	ggataaactg	aagggaaaag	atgagacgga	ttccccaaca	2220
gtccatttgg	gcctggactc	tgattcagag	agcgaacttg	tcatagattt	aggagaagac	2280
cattctgggc	gggagggctg	aaaaaaTaag	aaggaacca	aagaaccatc	tcccaaacag	2340
gatgttgtag	gtaaaactcc	accatCcacg	acggtgggca	gccattctcc	cccggaaaca	2400
ccggtgctca	cccgtctctc	cgcccaAact	tccgcggctg	gcgccacagc	caccaccagc	2460
acgtcctcca	cggtcaccgt	cacggCccc	gcccccgccg	ccacaggaag	cccagtgaaa	2520
aagcagaggc	cgcttttacc	gaaggagact	gccccggccg	tgcagcgggt	cgtgtggaac	2580
tcatcaactg	tccagcagaa	ggagatCaca	cagagcccat	ccacgtccac	catcacctg	2640
gtgaccagca	cacagtcatc	gcccctggtc	accagctcgg	ggtccatgag	cacccttgtg	2700
tcctcagtca	acgtgacct	gcccatcgcc	actgcctcag	ctgatgtcgc	cgctgatatt	2760
gccaagtaca	ctagcaaaat	gatggaTgca	ataaaaggaa	caatgacaga	aatatacaac	2820
gatctttcta	aaaacactac	tggaaGcaca	atagctgaga	ttcgcaggct	gaggatcgag	2880
atagagaagc	tccagtggct	gcaccaGcaa	gagctctccg	aaatgaaaca	caacttagag	2940
ctgaccatgg	cggagatgcg	gcagagCctg	gagcaggagc	gggaccggct	catcgccgag	3000
gtgaagaagc	agctggagtt	ggagaaAgcag	caggcggtgg	atgagaccaa	gaagaagcag	3060
tggtgcgcca	actgcaagaa	ggaggCcatc	ttttactgct	gttggaacac	tagctactgt	3120
gactaccctt	gccagcaagc	ccactGgcct	gagcacatga	agtcctgcac	ccagtcagct	3180
actgctcctc	agcaggaagc	ggatgCtgag	gtgaacacag	aaacactaaa	taagtcctcc	3240
caggggagct	cctcgagcac	acaatCagca	ccttcagaaa	cggccagcgc	ctccaaagag	3300

```

aaggagacgt cagctgagaa aagcaaggag agtggctcga cccttgacct ttctggctcc 3360
agagagacgc cctcctccat tctcttaggc tccaaccaag gctctgttag caaaagggtgt 3420
gacaagcaac ctgcctatgc cccaaccacc acagaccacc agccgcaccc caactacccc 3480
gcccagaagt accattcccc gagtaataaa tccagttgga gcagcagtga tgagaagagg 3540
ggatcgacac gttccgatca caacaccagt accagcacga agagcctcct cccgaaagag 3600
tctcggctgg acaccttctg ggactagcag tgaatcggga cacaaccac ccaccccatt 3660
gggagaaaaa cccagacgcc aggaaaagaa gaaacaacaa aggcaggaga acagccactt 3720
tcagacttga aaatgacaaa accctcagtt gagcctgagc ccccggcgcg ggggctgcta 3780
cactacagga caccagcat cggctttgac tgcagactgt tcaccacac gagccctgtg 3840
cttttggtgt aaataatgta caatttgtgg atgtcattga atctagagga ctttcccctt 3900
tttatatttg tattaacttt aacttattaa aaaaaaaaaa agaaaaagaa aaacgattta 3960
aaaaaaaaa aaaaagcaac caacccaac aacaaaaaag aatgttttgg tattggagaa 4020
gggatggtca gttagcctgt ctgtcacacg acggaatgga tactgggccc ggggaccact 4080
ttcatactca cgtcctcatc cttggatacc caggggaggg cgaaccgttt tcgctcgtgt 4140
gtctgtacgc agcatgttgg gatcgggagt ttcggcacag actatcccat caagccgttg 4200
gctcctttca gctactacgt taccacgttc ctaaaacgca agctctccgg accagacgga 4260
cacagggaga agctagtttc tttcatgtga ttgaaatgat gactctactc ctaaaagggg 4320
aaaaacaata tccttgttta cagaagagaa acaaaacagc cccactcagc tcagtcacag 4380
gagagaacac agaaagtctt aggatcatga actctgaaaa aaagagaaac cttatctttg 4440
ctttgtgggt cctttaaaca cactcacaca cacttggtca gagatgctgt gcttcttgga 4500
agcaaggact caaaggcaag gtgcacgcag aggacgtttg agtctgggat gaagcatgta 4560
cgtattattt atatgatgga atttcacgtt tttatgtaag catgaaacac aggcagtatg 4620
agagaaagca aggcccgta tgctgtccgt ac 4652

```

<210> 125

<211> 3217

<212> DNA

<213> NM_017452.1| Homo sapiens staufen, RNA binding protein (Drosophila) (STAU), transcript variant T2, mRNA

```

<400> 125
acttcctgcc gggctgcggg cgCctgagcg ctcttcagcg tttgcgcggc ggctgcgcgt 60
ctctctcggc tcccgcttcc tttgaccgcc tcccccccc ggcccggcgg cgcccgcctc 120
ctccacggcc actccgcctc ttccctccct tcgtcccttc ttctctccc ttttttcctt 180
cttccttccc ctctcgcgg ccaccgcca ggaccgcccg ccgggggacg agtccggagc 240

```

agcagccaga gtttattaac cacttaacct ctcagaactg aacaaagaca acattgttcc 300
 tggaacgccc tcttttttaa aaagaaagca taacccttac tgtagaacta aatgcactgt 360
 gcatgaaact tggaaaaaaa ccaatgtata agcctgttga cccttactct cggatgcagt 420
 ccacctataa ctacaacatg agaggaggtg cttatccccc gaggtacttt taccattttc 480
 cagttccacc tttactttat caagtggaac tttctgtggg aggacagcaa tttaatggca 540
 aaggaaagac aagacaggct gcgaaacacg atgctgctgc caaagcgttg aggatcctgc 600
 agaatgagcc cctgccagag aggctggagg tgaatggaag agaatccgaa gaagaaaatc 660
 tcaataaatc tgaaataagt caagtgtttg agattgcact taaacggaac ttgcctgtga 720
 atttcgaggt ggcccgggag agtgggccac cccacatgaa gaactttgtg accaagggtt 780
 cggttgggga gtttgtgggg gaagggtgaag ggaaaagcaa gaagatttca aagaaaaatg 840
 ccgccatagc tgttcttgag gagctgaaga agttaccgcc cctgcctgca gttgaacgag 900
 taaagcctag aatcaaaaag aaaacaaaac ccatagtcaa gccacagaca agcccagaat 960
 atggccaggg gatcaatccg attagccgac tggccagat ccagcaggca aaaaaggaga 1020
 aggagccaga gtacacgctc ctcacagagc gaggcctccc gcgccgcagg gagtttgtga 1080
 tgcaggtgaa ggttggaac cactctgcag aaggaacggg caccaacaag aagggtggca 1140
 agcgcaatgc agccgagaac atgctggaga tccttggttt caaagtcccg cagcggcagc 1200
 ccaccaaacc cgactcaag tcagaggaga agacacccat aaagaaacca ggggatggaa 1260
 gaaaagtaac cttttttgaa cctggctctg gggatgaaaa tgggactagt aataaagagg 1320
 atgagttcag gatgccttat ctaagtcac agcagctgcc tgctggaatt cttcccatgg 1380
 tgcccagagt cgcccaggct gtaggagtta gtcaaggaca tcacaccaa gattttacca 1440
 gggcagctcc gaatcctgcc aaggccacgg taactgccat gatagcccga gagttgttgt 1500
 atgggggcac ctgcccaca gccgagacca ttttaaagaa taacatctct tcaggccacg 1560
 taccatgg acctctcacg agaccctctg agcaactgga ctatctttcc agagtccagg 1620
 gattccaggt tgaatacaaa gacttccca aaaacaaca gaacgaattt gtatctctta 1680
 tcaattgctc ctctcagcca cctctgatca gccatggtat cggcaaggat gtggagtcct 1740
 gccatgatat ggctgcgctg aacatcttaa agttgctgtc tgagttggac caacaaagta 1800
 cagagatgcc aagaacagga aacggacca tgtctgtgtg tgggaggtgc tgaacctttt 1860
 ctggccatga accattataa aatcccaaca tatatactga aaatactgaa actgctttga 1920
 aaatttgga tttctgatac ctccagtggg ccgagagaca cgggtgggtaa aggatgtggg 1980
 cagcagcagg gaagacaaca gaaacacaag gaggcggctg tggccggctg gactgtgctg 2040
 gggtttgttg tgatggccac tcggtgacct ggcgtccct acgcaatagc agctgcctgt 2100
 ggggaagaag ggctgcccag ccagctggtt ctcccgggac accagcagat ccacaccctg 2160
 ggcacctccg tgtttggctt tttttttccc ctgtgtgaaa gaagaaacgg cagcaccct 2220

```

tctcaagctg gctcactcag acacattggg acaaaccctg gacagccatg ccagagagag 2280
gcctttgacc ggccccagag ctaaaagcac cagagaaaat caaatgcttc ctactcagcg 2340
tgacccaact tttctagtgt gccacggccc caccacctcc tgcagtaccc acaccatcac 2400
cactgctttc tcttccaaca gtgatctgta ttcttagttt cattattttc ttttgattga 2460
tatgacacta tataaaat tcat ttttgaga atttctcaat tgtatctagt taaatagcac 2520
agtttggaaa cttgtctgag actgacttta tcaataatct aaccgacaaa gatcatatcc 2580
atgtgtatgt ggtagacat ttttatttca ttgactaacc caggacagtt tcagtgatgc 2640
aaattgtgtg ccctctgggt cagctgaaac agtcctggac tttcaaaaac cttgaataag 2700
tctcccacag ttgtataaat tggacaattt aggaatttta aacttttagat gatcatttgg 2760
ttccattttt atttcatttt tat tttttgtt aatgcaaaca ggacttaaat gaactttgat 2820
ctctgtttta aagattatta aaaaacattg tgtatctata catatggctc ttgaggactt 2880
agctttcact aactacagg atatgatctc catgtagtcc atataaacct gcagagtgat 2940
tttccagagt gctcgatact gttaattaca tctccattag ggctgaaaag aatgacctac 3000
gtttctgtat acagctgtgt tgcttttgat gttgtgttac tgtacacaga agtgtgtgca 3060
ctgaggctct gcgtgtggtc cgtatggaaa acctggtagc cctgcgagtt aagtactgct 3120
tccattcatt gtttacgctg gaatttttct ccccatggaa tgtaagtaaa acttaagtgt 3180
ttgtcatcaa taaatggtaa tactaaaaaa aaaaaaa 3217

```

<210> 126

<211> 3506

<212> DNA

<213> NM_017453.1| Homo sapiens staufer, RNA binding protein (Drosophila) (STAU), transcript variant T3, mRNA

```

<400> 126
acttcctgcc gggctgcggg cgcctgagcg ctcttcagcg tttgcgcggc ggctgcgcgt 60
ctctctcggc tcccgtttcc tttgaccgcc tcccccccc ggcccggcgg cgcccgctc 120
ctccacggcc actccgcctc ttcctccct tcgtcccttc ttcctctccc ttttttcctt 180
cttccttccc ctctcgccg ccaccgccca ggaccgccgg ccgggggacg agtccggagc 240
agcagccaga gtttattaac cacttaacct ctcagaactg acaaagaca acattgttcc 300
tggaacgccc tcttttttaa aaaggtagaa ctttagactt catagcactg aattaacctg 360
cactgaaagc tgtttacctg catttggtca cttttgttga aagtgaccat gtctcaagtt 420
caagtgaag ttcagaacct atctgctgct ctctcaggga gccaaatact gaacaagaac 480
cagtctcttc tctcacagcc tttgatgagt attccttcta ctactagctc tctgccctct 540
gaaaatgcag gtagacccat tcaaaactct gctttaccct ctgcatctat tacatccacc 600

```

agtgcagctg	cagaaagcat	aaccctact	gtagaactaa	atgcactgtg	catgaaactt	660
ggaaaaaac	caatgtataa	gcctgttgac	ccttactctc	ggatgcagtc	cacctataac	720
tacaacatga	gaggaggtgc	ttatcccccg	aggctactttt	acccatttcc	agttccacct	780
ttactttatc	aagtggaact	ttctgtggga	ggacagcaat	ttaatggcaa	aggaaagaca	840
agacaggctg	cgaaacacga	tgctgctgcc	aaagcgttga	ggatcctgca	gaatgagccc	900
ctgccagaga	ggctggaggt	gaatggaaga	gaatccgaag	aagaaaatct	caataaatct	960
gaaataagtc	aagtgtttga	gattgcactt	aaacggaact	tgctgtgaa	tttcgaggtg	1020
gcccgggaga	gtggcccacc	ccacatgaag	aactttgtga	ccaaggtttc	ggttggggag	1080
tttgtggggg	aagggtgaagg	gaaaagcaag	aagatttcaa	agaaaaatgc	cgccatagct	1140
gttcttgagg	agctgaagaa	gttaccgccc	ctgcctgcag	ttgaacgagt	aaagcctaga	1200
atcaaaaaga	aaacaaaacc	catagtcaag	ccacagacaa	gcccagaata	tggccagggg	1260
atcaatccga	ttagccgact	ggcccagatc	cagcaggcaa	aaaaggagaa	ggagccagag	1320
tacacgctcc	tcacagagcg	aggcctcccc	cgccgcaggg	agtttgtgat	gcagggtgaag	1380
gttggaacc	acactgcaga	aggaacgggc	accaacaaga	aggtggccaa	gcgcaatgca	1440
gccgagaaca	tgctggagat	ccttggtttc	aaagtcccg	agcggcagcc	caccaaacc	1500
gcactcaagt	cagaggagaa	gacaccata	aagaaaccag	gggatggaag	aaaagtaacc	1560
ttttttgaac	ctggctcttg	ggatgaaaat	gggactagta	ataaagagga	tgagttcagg	1620
atgccttata	taagtcatca	gcagctgcct	gctggaattc	ttcccatggt	gcccgaggtc	1680
gcccaggctg	taggagttag	tcaaggacat	cacaccaaag	attttaccag	ggcagctccg	1740
aatcctgcca	aggccacggt	aactgccatg	atagcccag	agttgttgta	tgggggcacc	1800
tcgcccacag	ccgagaccat	tttaaagaat	aacatctctt	caggccacgt	accccatgga	1860
cctctcacga	gaccctctga	gcaactggac	tatctttcca	gagtccaggg	attccaggtt	1920
gaatacaaa	acttcccaa	aaacaacaag	aacgaatttg	tatctcttat	caattgctcc	1980
tctcagccac	ctctgatcag	ccatggtatc	ggcaaggatg	tggagtcctg	ccatgatatg	2040
gctgcgctga	acatcttaaa	gttgctgtct	gagttggacc	aacaaagtac	agagatgcca	2100
agaacaggaa	acggaccaat	gtctgtgtgt	gggagggtgct	gaaccttttc	tggccatgaa	2160
ccattataaa	atcccaacat	atatactgaa	aatactgaaa	ctgctttgaa	aatttggaat	2220
ttctgatacc	tccagtgggc	cgagagacac	ggtgggtaaa	ggatgtgggc	agcagcaggg	2280
aagacaacag	aaacacaagg	aggcggctgt	ggccggctgg	actgtgctgg	ggtttgttgt	2340
gatggccact	cggtgacctg	gcggtcccta	cgcaatagca	gctgcctgtg	gggaagaagg	2400
gctgcccagc	cagctggttc	tcccgggaca	ccagcagatc	cacaccctgg	gcacctccgt	2460
gtttggtctt	ttttttcccc	tgtgtgaaag	aagaaacggc	acgaccctt	ctcaagctgg	2520
ctcactcaga	cacattggga	caaaccctgg	acagccatgc	cagagagagg	cctttgaccg	2580
gccccagagc	taaaagcacc	agagaaaatc	aaatgcttcc	tactcagcgt	gaccaactt	2640

```

ttctagtgtg ccacggcccc accacctcct gcagtaccca caccatcacc actgcttttct 2700
cttccaacag tgatctgtat tcttagtttc attattttct tttgattgat atgacactat 2760
ataaaatttt catttgagaa tttctcaatt gtatctagtt aaatagcaca gtttggaac 2820
ttgtctgaga ctgactttat caataatcta accgacaaag atcatatcca tgtgtatgtg 2880
gtagacatt tttatttcat tgactaacc aggacagttt cagtgatgca aattgtgtgc 2940
cctctgggtc agctgaaaca gtcctggact ttcaaaaacc ttgaataagt ctcccacagt 3000
tgtataaatt ggacaattta ggaattttaa acttttagatg atcatttggg tccattttta 3060
tttcattttt atttttgtta atgcaaacag gacttaaagt aactttgatc tctgttttaa 3120
agattattaa aaaacattgt gtatctatac atatggctct tgaggactta gctttcacta 3180
cactacagga tatgatctcc atgtagtcca tataaacctg cagagtgatt ttcagagtg 3240
ctcgatactg ttaattacat ctccattagg gctgaaaaga atgacctacg tttctgtata 3300
cagctgtgtt gcttttgatg ttgtgttact gtacacagaa gtgtgtgcac tgaggctctg 3360
cgtgtggtcc gtatggaaaa cctggtagcc ctgcgagtta agtactgctt ccattcattg 3420
tttacgctgg aatttttctc cccatggaat gtaagtaaaa ctttaagtgt tgtcatcaat 3480
aaatggtaat actaaaaaaaa aaaaaa 3506

```

<210> 127

<211> 4538

<212> DNA

<213> NM_199169.1| Homo sapiens transmembrane, prostate androgen induced RNA (TMEPAI), transcript variant 2, mRNA

```

<400> 127
tggtcgtcct ccttgggttc ggggtgaaagc gcttgggggt tcagtgggcc atgatccccg 60
agctgctgga gaactgaagg cggacagtct cctgcgaaac caggcaatgg cggagctgga 120
gtttgttcag atcatcatca tcgtggtggt gatgatggtg atggtggtgg tgatcacgtg 180
cctgctgagc cactacaagc tgtctgcacg gtccttcac agccggcaca gccaggggagc 240
gaggagagaa gatgccctgt cctcagaagg atgcctgtgg ccctcggaga gcacagtgtc 300
aggcaacgga atcccagagc cgcaggtcta cgccccgctt cggcccaccg accgcctggc 360
cgtgccgccc ttcgcccagc gggagcgctt ccaccgctt cagcccacct atccgtacct 420
gcagcacgag atcgacctgc caccaccat ctcgctgtca gacggggagg agccccacc 480
ctaccagggc ccctgcaccc tccagcttcg ggaccccgag cagcagctgg aaactgaaccg 540
ggagtcggtg cgcgaccccc caaacagaac catcttcgac agtgacctga tggatagtgc 600
caggctgggc ggcccctgcc cccccagcag taactcgggc atcagcgcca cgtgctacgg 660
cagcggcggg cgcatggagg ggccgcccgc cacctacagc gaggtcatcg gccactaccc 720

```

ggggtcctcc	ttccagcacc	agcagagcag	tgggccgccc	tccttgctgg	aggggacccg	780
gctccaccac	acacacatcg	cgcccctaga	gagcgcagcc	atctggagca	aagagaagga	840
taaacagaaa	ggacaccctc	tctaggggtcc	ccaggggggc	cgggctgggg	ctgcgtaggt	900
gaaaaggcag	aacactccgc	gcttcttaga	agaggagtga	gaggaaggcg	ggggg'gcag	960
caacgcatcg	tgtggccctc	ccctcccacc	tccctgtgta	taaatattta	catgtgatgt	1020
ctggtctgaa	tgcacaagct	aagagagctt	gcaaaaaaaaa	aaagaaaaaa	gaaaaaaaaa	1080
aaccacgttt	ctttgttgag	ctgtgtcttg	aaggcaaaag	aaaaaaaatt	tctacagtag	1140
tctttcttgt	ttctagttga	gctgcgtgcg	tgaatgctta	ttttcttttg	tttatgataa	1200
tttcaactaa	ctttaaagac	atatttgcac	aaaacctttg	tttaaagatc	tgcaatatta	1260
tatatataaa	tatatataag	ataagagaaa	ctgtatgtgc	gagggcagga	gtatTTTTgt	1320
attagaagag	gcctattaaa	aaaaaaagtt	gttttctgaa	ctagaagagg	aaaaaaatgg	1380
caatTTTTga	gtgccaagtc	agaaagtgtg	tattaccttg	taaagaaaaa	aattacaaag	1440
caggggttta	gagttattta	tataaatgtt	gagattttgc	actatTTTTt	aatataaata	1500
tgtcagtgtc	tgcttgatgg	aaacttctct	tgtgtctgtt	gagactttaa	gggagaaatg	1560
tcggaatttc	agagtcgcct	gacggcagag	ggtgagcccc	cgtggagtct	gcagagaggc	1620
cttggccagg	agcggcgggc	tttcccagg	ggccactgtc	cctgcagagt	ggatgcttct	1680
gcctagtgc	aggttatcac	cacgttatat	attccctacc	gaaggagaca	cTTTTTcccc	1740
cctgacccag	aacagccttt	aatcacaaag	caaaatagga	aagttaacca	cggaggcacc	1800
gagttccagg	tagtggtttt	gcTTTTcca	aaaatgaaaa	taaactgtta	ccgaagggaat	1860
tagTTTTtcc	tcttctTTTT	tccaactgtg	aaggTccccg	tggggTggag	catggTgccc	1920
ctcacaagcc	gcagcggtcg	gtgcccgggc	taccagggac	atgccagagg	gctcgatgac	1980
ttgtctctgc	agggcgcttt	ggtggttggt	cagctggcta	aaggTtcacc	ggtgaaggca	2040
ggtgcggtaa	ctgccgcact	ggaccctagg	aagccccagg	tattcgcaat	ctgacctcct	2100
cctgtctgtt	tcccttcacg	gatcaattct	cacttaagag	gccaataaac	aaccaaacat	2160
gaaaagggtga	caagcctggg	tttctcccag	gataggTgaa	agggttaaaa	tgagtaaagc	2220
agttgagcaa	acaccaaccc	gagcttcggg	cgcagaattc	ttcaccttct	cttccccctt	2280
ccatctcctt	tccccgcgga	aacaacgctt	cccttctggt	gtgtctgttg	atctgtgttt	2340
tcattttacat	ctctcttaga	ctccgctctt	gttctccagg	ttttcaCag	atagattttg	2400
ggttggcggg	acctgctggt	gacgtgcagg	tgaaggacag	gaaggggcat	gtgagcgtaa	2460
atagagggtga	ccagaggaga	gcatgagggg	tggggctttg	ggaccacccg	gggccagtgg	2520
ctggagcttg	acgtctttcc	tccccatggg	ggtgggaggg	ccccagctg	gaagagcaga	2580
ctcccagctg	ctacccccctc	ccttcccatg	ggagtggctt	tccatttttg	gcagaatgct	2640
gactagtaga	ctaacataaa	agatataaaa	ggcaataact	attgtttgtg	agcaactttt	2700

```

ttataacttc caaaacaaaa acctgagcac agttttgaag ttctagccac tcgagctcat 2760
gcatgtgaaa cgtgtgcttt acgaagggtg cagctgacag acgtgggctc tgcattgccgc 2820
cagcctagta gaaagtcttc gttcattggc aacagcagaa cctgcctctc cgtgaagtcg 2880
tcagcctaaa atttgtttct ctcttgaaga ggattccttg aaaaggctct gcagagaaat 2940
cagtacaggt tatcccgaag ggtacaagga cgcacttgta aagatgatta aaacgtatct 3000
ttcctttatg tgacgcgtct ctagtgccct actgaagaag cagtgcactt cccgtcgtct 3060
ggtgaggacg ttcccggaca gtgcctcact cacctgggac tggatatccc tcccagggtc 3120
caccaagggc tcctgctttt cagacacccc atcatcctcg cgcgtcctca ccctgtctct 3180
accagggagg tgcctagctt ggtgagggtta ctctgctcc tccaaccttt ttttgccaag 3240
gtttgtacac gactcccatc taggctgaaa acctagaagt ggaccttggt tgtgtgcatg 3300
gtgtcagccc aaagccaggc tgagacagtc ctcatatcct cttgagccaa actgtttggg 3360
tctcgttgct tcatgggtatg gtctggattt gtgggaatgg ctttgcgta gaaaggggag 3420
gagagtgggt gctgccctca gccggcttga ggacagagcc tgtccctctc atgacaactc 3480
agtgttgaag cccagtgtcc tcagcttcat gtccagtgga tggcagaagt tcatggggta 3540
gtggcctctc aaaggctggg cgcattccaa gacagccagc aggttgtctc tggaaacgac 3600
cagagttaag ctctcggctt ctctgctgag ggtgcaccct ttcctctaga tggtagttgt 3660
cacgttatct ttgaaaactc ttggactgct cctgaggagg ccctcttttc cagtaggaag 3720
ttagatgggg gttctcagaa gtggctgatt ggaaggggac aagcttcggt tcagggggtc 3780
gccgttccat cctggttcag agaaggccga gcgtggcttt ctctagcctt gtcactgtct 3840
ccctgcctgt caatcaccac ctttcctcca gaggaggaaa attatctccc ctgcaaagcc 3900
cggttctaca cagatttcac aaattgtgct aagaaccgtc cgtgttctca gaaagcccag 3960
tgtttttgca aagaatgaaa agggaccca tatgtagcaa aaatcagggc tgggggagag 4020
ccgggttcat tccctgtcct cattggctgt ccctatgaat tgtacgtttc agagaaattt 4080
tttttctat gtgcaacacg aagcttccag aaccataaaa tatcccgtcg ataaggaaag 4140
aaaatgtcgt tgttggtgtt tttctggaaa ctgcttgaaa tcttgctgta ctatagagct 4200
cagaaggaca cagcccgtcc tcccctgcct gcctgattcc atggctgttg tgctgattcc 4260
aatgctttca cgttggttcc tggcgtggga actgctctcc tttgcagccc catttcccaa 4320
gctctgttca agttaaaact atgtaagctt tccgtggcat gcggggcgcg caccacgctc 4380
cccgtgcgt aagactctgt atttggatgc caatccacag gcctgaagaa actgcttggt 4440
gtgtatcagt aatcattagt ggcaatgatg acattctgaa aagctgcaat acttatacaa 4500
taaattttac aattctttgg aaaaaaaaaa aaaaaaaa 4538

```

<210> 128

<211> 4531

<212> DNA

<213> NM_199170.1| Homo sapiens transmembrane, prostate androgen induced RNA (TMEPAI), transcript variant 3, mRNA

```

<400> 128
tggtcgtcct ccttgggttc gggtgaaagc gcttgggggt tcagtggggc atgatccccg      60
agctgctgga gaactgaagg cggacagtct cctgcgaaac cagcggagct ggagtttgtt      120
cagatcatca tcatcgtggt ggtgatgatg gtgatggtgg tggatgatcac gtgcctgctg      180
agccactaca agctgtctgc acggtccttc atcagccggc acagccaggg gcggaggaga      240
gaagatgccc tgctctcaga aggatgcctg tggccctcgg agagcacagt gtcaggcaac      300
ggaatcccag agccgcaggt ctacgccccg cctcggccca ccgaccgcct ggccgtgccg      360
cccttcgccc agcgggagcg cttccaccgc ttccagccca cctatccgta cctgcagcac      420
gagatcgacc tgccaccac catctcgctg tcagacgggg aggagcccc accctaccag      480
ggccccctgca ccctccagct tcgggacccc gagcagcagc tggaactgaa ccgggagtcg      540
gtgcgcgcac ccccaaacag aaccatcttc gacagtgacc tgatggatag tgccaggctg      600
ggcggccccct gcccccccag cagtaactcg ggcacagcg ccacgtgcta cggcagcggc      660
gggcgcatgg aggggcccgc gccacctac agcgaggtca tcggccacta cccgggggtcc      720
tccttcagc accagcagag cagtgggccc ccctccttgc tggaggggac ccggctccac      780
cacacacaca tcgcgcccct agagagcgca gccatctgga gcaaagagaa ggataaacag      840
aaaggacacc ctctctaggg tccccagggg ggccgggctg gggctgcgta ggtgaaaagg      900
cagaacactc cgcgcttctt agaagaggag tgagaggaag gcggggggcg cagcaacgca      960
tcgtgtggcc ctccccctcc acctccctgt gtataaatat ttacatgtga tgtctggtct     1020
gaatgcacaa gctaagagag cttgcaaaaa aaaaaagaaa aaagaaaaaa aaaaaccacg     1080
tttctttgtt gagctgtgtc ttgaaggcaa aagaaaaaaa atttctacag tagtctttct     1140
tgtttctagt tgagctgcgt gcgtgaatgc ttattttctt ttgtttatga taatttctact     1200
taactttaaa gacatatattg cacaaaacct ttgtttaaag atctgcaata ttatatatat     1260
aaatatatat aagataagag aaactgtatg tgcgagggca ggagtatttt tgtattagaa     1320
gaggcctatt aaaaaaaaaa gttgttttct gaactagaag aggaaaaaaaa tggcaatttt     1380
tgagtgccaa gtcagaaagt gtgtattacc ttgtaaagaa aaaaattaca aagcaggggt     1440
ttagagttat ttatataaat gttgagattt tgcactattt tttaataata atatgtcagt     1500
gcttgcttga tggaaacttc tcttgtgtct gttgagactt taaggagaaa atgtcggaat     1560
ttcagagtcg cctgacggca gagggtgagc ccccgaggag tctgcagaga ggccttggcc     1620
aggagcggcg ggctttcccg aggggccact gtccctgcag agtggatgct tctgcctagt     1680
gacaggttat caccacgtta tatattccct accgaaggag acaccttttc cccctgacc     1740
cagaacagcc tttaaatac aagcaaaata ggaaagttaa ccacggaggc accgagttcc     1800

```

aggtagtggt	tttgcctttc	ccaaaaatga	aaataaaactg	ttaccgaagg	aattagtttt	1860
tcctcttctt	ttttccaact	gtgaagggtcc	ccgtgggggtg	gagcatgggtg	cccctcacia	1920
gccgcagcgg	ctgggtgccc	ggctaccagg	gacatgccag	agggctcgat	gacttgtctc	1980
tgcagggcgc	tttggtggtt	gttcagctgg	ctaaagggttc	accggtgaag	gcagggtgcg	2040
taactgccgc	actggaccct	aggaagcccc	aggtattcgc	aatctgacct	cctcctgtct	2100
gtttcccttc	acggatcaat	tctcacttaa	gaggccaata	aacaacccaa	catgaaaagg	2160
tgacaagcct	gggtttctcc	caggataggt	gaaagggtta	aatgagtaa	agcagttgag	2220
caaacaccaa	cccgagcttc	gggcgcagaa	ttcttcacct	tctcttcccc	tttccatctc	2280
ctttccccgc	ggaacaacg	cttcccttct	ggtgtgtctg	ttgatctgtg	ttttcattta	2340
catctctctt	agactccgct	cttgttctcc	aggttttcac	cagatagatt	tgggggtggc	2400
gggacctgct	ggtgacgtgc	aggtgaagga	caggaagggg	catgtgagcg	taaatagagg	2460
tgaccagagg	agagcatgag	gggtggggct	ttgggaccca	ccggggccag	tggctggagc	2520
ttgacgtctt	tcctccccat	gggggtggga	gggccccag	ctggaagagc	agactcccag	2580
ctgctacccc	ctcccttccc	atgggagtgg	ctttccattt	tgggcagaat	gctgactagt	2640
agactaacat	aaaagatata	aaaggcaata	actattgttt	gtgagcaact	tttttataac	2700
ttccaaaaca	aaaacctgag	cacagttttg	aagttctagc	cactcgagct	catgcatgtg	2760
aaacgtgtgc	tttacgaagg	tggcagctga	cagacgtggg	ctctgcatgc	cgccagccta	2820
gtagaaagtt	ctcgttcatt	ggcaacagca	gaacctgcct	ctccgtgaag	tcgtcagcct	2880
aaaatttggt	tctctcttga	agaggattct	ttgaaaaggt	cctgcagaga	aatcagtaca	2940
ggttatcccg	aaaggtacaa	ggacgcactt	gtaaagatga	ttaaaacgta	tctttccttt	3000
atgtgacgcg	tctctagtgc	cttactgaag	aagcagtgc	actcccgtcg	ctcggtgagg	3060
acgttcccg	acagtgcctc	actcacctgg	gactgggtatc	ccctcccagg	gtccaccaag	3120
ggctcctgct	tttcagacac	cccatcatcc	tcgcgcgtcc	tcaccctgtc	tctaccagg	3180
aggtgcctag	cttggtgagg	ttactcctgc	tcctccaacc	tttttttgcc	aaggtttgta	3240
cacgactccc	atctaggctg	aaaacctaga	agtggacctt	gtgtgtgtgc	atggtgtcag	3300
cccaaagcca	ggctgagaca	gtcctcatat	cctcttgagc	caaaactgttt	gggtctcggt	3360
gcttcattgt	atggtctgga	tttggtggga	tggctttgcg	tgagaaaggg	gaggagagtg	3420
gttgctgccc	tcagccggct	tgaggacaga	gcctgtccct	ctcatgacaa	ctcagtgttg	3480
aagccagtg	tcctcagctt	catgtccagt	ggatggcaga	agttcatggg	gtagtggcct	3540
ctcaaaggct	gggcgcaccc	caagacagcc	agcaggttgt	ctctggaaac	gaccagagtt	3600
aagctctcgg	cttctctgct	gaggggtgcac	cctttcctct	agatggtagt	tgtcacgtta	3660
tctttgaaaa	ctcttggtgact	gctcctgagg	aggccctctt	ttccagtagg	aagttagatg	3720
ggggttctca	gaagtggctg	attggaaggg	gacaagcttc	gtttcagggg	tctgccgttc	3780

```

catcctggtt cagagaaggc cgagcgtggc tttctctagc cttgtcactg tctccctgcc 3840
tgtcaatcac caccttttct ccagaggagg aaaattatct cccctgcaaa gcccgggttct 3900
acacagattt cacaaattgt gctaagaacc gtccgtgttc tcagaaagcc cagtgttttt 3960
gcaaagaatg aaaagggacc ccatatgtag caaaaatcag ggctggggga gagccgggtt 4020
cattccctgt cctcattggg cgtccctatg aattgtacgt ttcagagaaa ttttttttcc 4080
tatgtgcaac acgaagcttc cagaaccata aaatatcccg tcgataagga aagaaaaatgt 4140
cgttgttggg gtttttcttg aaactgcttg aaatcttgct gtactataga gtcagaagg 4200
acacagcccc tcctccccct cctgcctgat tccatggctg ttgtgctgat tccaatgctt 4260
tcacgttggg tcctggcgtg ggaactgctc tcctttgcag cccattttcc caagctctgt 4320
tcaagttaaa cttatgtaag ctttccgtgg catgcggggc gcgcacccac gtccccgctg 4380
cgtaagactc tgtatttggg tgccaatcca caggcctgaa gaaactgctt gttgtgtatc 4440
agtaatcatt agtggcaatg atgacattct gaaaagctgc aatacttata caataaattt 4500
tacaattctt tggaaaaaaa aaaaaaaaaa a 4531

```

<210> 129

<211> 2692

<212> DNA

<213> NM_152871.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 2, mRNA

```

<400> 129
cctacccgcg cgcaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc 60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga 120
tctcgcgcaa gagtgacaca caggtgttca aagacgcttc tggggagtga gggaagcggg 180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg gggttggtgga cccgctcagt 300
acggagttgg ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg 360
gaccctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga 480
gactcagaac ttggaaggcc tgcattcatg tggccaattc tgccataagc cctgtcctcc 540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccttg 600
ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag 660
attgtgtgat gaaggacatg gcttagaagt ggaataaac tgcacccgga cccagaatac 720
caagtgcaga tgtaaacc aaactttttt taactctact gtatgtgaac actgtgaccc 780
ttgcaccaa tgatgaacat gaatcatcaa ggaatgcaca ctcaccagca acaccaagtg 840

```

```

caaagaggaa gtgaagagaa aggaagtaca gaaaacatgc agaaagcaca gaaaggaaaa 900
ccaaggttct catgaatctc caaccttaaa tcctgaaaca gtggcaataa atttatctga 960
tgttgacttg agtaaatata tcaccactat tgctggagtc atgacactaa gtcaagttaa 1020
aggctttggt cgaaagaatg gtgtcaatga agccaaaata gatgagatca agaatgacaa 1080
tgtccaagac acagcagaac agaaagttca actgcttcgt aattggcatc aacttcatgg 1140
aaagaaagaa gcgtatgaca cattgattaa agatctcaaa aaagccaatc tttgtactct 1200
tgcagagaaa attcagacta tcatcctcaa ggacattact agtgactcag aaaattcaaa 1260
cttcagaaat gaaatccaaa gcttgggtcta gagtgaaaaa caacaaattc agttctgagt 1320
atatgcaatt agtgtttgaa aagattctta atagctggct gtaaatactg cttgggtttt 1380
tactgggtac attttatcat ttattagcgc tgaagagcca acatatttgt agatttttaa 1440
tatctcatga ttctgcctcc aaggatgttt aaaatctagt tgggaaaaca aacttcatca 1500
agagtaaattg cagtggcatg ctaagtaccc aaataggagt gtatgcagag gatgaaagat 1560
taagattatg ctctggcatc taacatatga ttctgtagta tgaatgtaat cagtgtatgt 1620
tagtacaaat gtctatccac aggctaacc cactctatga atcaatagaa gaagctatga 1680
ccttttgctg aaatatcagt tactgaacag gcaggccact ttgcctctaa attacctctg 1740
ataattctag agattttacc atatttctaa actttgttta taactctgag aagatcatat 1800
ttatgtaaag tatatgtatt tgagtgcaga atttaaataa ggctctacct caaagacctt 1860
tgcacagttt attgggtgtca tattatacaa tatttcaatt gtgaattcac atagaaaaca 1920
ttaaattata atgtttgact attatatatg tgtatgcatt ttactggctc aaaactacct 1980
acttctttct caggcatcaa aagcattttg agcaggagag tattactaga gctttgccac 2040
ctctccatth ttgccttgggt gctcatctta atggcctaata gcacccccaa acatggaaat 2100
atcaccaaaa aatacttaat agtccaccaa aaggcaagac tgcccttaga aattctagcc 2160
tggtttggag atactaactg ctctcagaga aagtagcttt gtgacatgtc atgaacccat 2220
gtttgcaatc aaagatgata aaatagattc ttatthttcc cccacccccg aaaatgttca 2280
ataatgtccc atgtaaaacc tgctacaaat ggcagcttat acatagcaat ggtaaaatca 2340
tcatctggat ttaggaattg ctcttgtcat accccaagt ttctaagatt taagattctc 2400
cttactacta tcctacgttt aaatatcttt gaaagtttgt attaaatgtg aattttaaga 2460
aataatattt atatttctgt aaatgtaaac tgtgaagata gttataaact gaagcagata 2520
cctggaacca cctaaagaac ttccatttat ggaggatttt tttgcccctt gtgtttggaa 2580
ttataaaaata taggtaaaag tacgtaatta aataatgttt ttggtaaaaa aaaaaaaaaa 2640
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 2692

```

<210> 130

<211> 2730

<212> DNA

<213> NM_152872.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 3, mRNA

```

<400> 130
cctacccgcg cgcaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc      60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga      120
tctcgcgcaa gagtgacaca caggtgttca aagacgcttc tggggagtga ggggaagcgg      180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc      240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt      300
acggagttgg ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg      360
gaccctccta cctctgggtt ttacgtctgt tgctagatta tcgtccaaaa gtgttaaatgc      420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga      480
gactcagaac ttggaaggcc tgcattcatga tggccaattc tgccataagc cctgtcctcc      540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccctg      600
ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag      660
attgtgtgat gaaggacatg gcttagaagt ggaaataaac tgcacccgga cccagaatac      720
caagtgcaga tgtaaaccaa actttttttg taactctact gtatgtgaac actgtgaccc      780
ttgcaccaaa tgtgaacatg gaatcatcaa ggaatgcaca ctcaccagca acaccaagtg      840
caaagaggaa ggatccagat ctaacttggg gtggctttgt cttcttcttt tgccaattcc      900
actaattggt tgggtgaaga gaaaggaagt acagaaaaca tgcagaaagc acagaaagga      960
aaaccaaggt tctcatgaat ctccaacctt aaatcctatg ttgacttgag taaatatatc     1020
accactattg ctggagtcac gacactaagt caagttaaag gctttgttcg aaagaatggt     1080
gtcaatgaag ccaaaataga tgagatcaag aatgacaatg tccaagacac agcagaacag     1140
aaagttcaac tgcttcgtaa ttggcatcaa cttcatggaa agaaagaagc gtatgacaca     1200
ttgattaaag atctcaaaaa agccaatctt tgtactcttg cagagaaaat tcagactatc     1260
atcctcaagg acattactag tgactcagaa aattcaaact tcagaaatga aatccaaagc     1320
ttgggtctaga gtgaaaaaca acaaattcag ttctgagtat atgcaattag tgtttgaaaa     1380
gattcttaat agctggctgt aaatactgct tggtttttta ctgggtacat tttatcattt     1440
attagcgctg aagagccaac atattttag atttttaata tctcatgatt ctgcctccaa     1500
ggatgtttta aatctagttg ggaaaacaaa cttcatcaag agtaaagca gtggcatgct     1560
aagtacccaa ataggagtgt atgcagagga tgaaagatta agattatgct ctggcatcta     1620
acatatgatt ctgtagtatg aatgtaatca gtgtatgtta gtacaaatgt ctatccacag     1680
gctaacccca ctctatgaat caatagaaga agctatgacc ttttgctgaa atatcagtta     1740
ctgaacaggc aggccacttt gcctctaaat tacctctgat aattctagag attttaccat     1800

```

```

atttctaaac tttgtttata actctgagaa gatcatatTT atgtaaagta tatgtatttg 1860
agtgacagaat ttaaataagg ctctacctca aagacctttg cacagtttat tgggtgtcata 1920
ttatacaata tttcaattgt gaattcacat agaaaacatt aaattataat gtttgactat 1980
tatatatgtg tatgcatTTT actggctcaa aactacctac ttctttctca ggcatcaaaa 2040
gcattttgag caggagagta ttactagagc tttgccacct ctccattTTT gccttggtgc 2100
tcatcttaat ggcctaatac acccccaaac atggaaatat caccaaaaaa tacttaatag 2160
tccaccaaaa ggcaagactg cccttagaaa ttctagcctg gtttgagat actaactgct 2220
ctcagagaaa gtagctttgt gacatgtcat gaacccatgt ttgcaatcaa agatgataaa 2280
atagattctt atTTTTCCCC ccccccgaa aatgttcaat aatgtcccat gtaaacctg 2340
ctacaaatgg cagcttatac atagcaatgg taaaatcatc atctggattt aggaattgct 2400
cttgtcatac cccaagttt ctaagattta agattctcct tactactatc ctacgtttaa 2460
atatctttga aagtttgtat taaatgtgaa ttttaagaaa taatatttat atttctgtaa 2520
atgtaaactg tgaagatagt tataaactga agcagatacc tggaaccacc taaagaactt 2580
ccatttatgg aggattTTTT tgccccttgt gtttggaatt ataaaatata ggtaaaagta 2640
cgtaattaaa taatgtTTTT ggtaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2700
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2730

```

<210> 131

<211> 2563

<212> DNA

<213> NM_152874.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 8, mRNA

```

<400> 131
cctacccgcg cgcaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc 60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga 120
tctcgcgcaa gagtgacaca caggtgttca aagacgcttc tggggagtga ggaagcggc 180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt 300
acggagttgg ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg 360
gaccctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga 480
gactcagaac ttggaaggcc tgcacatga tggccaattc tgccataagc cctgtcctcc 540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccttg 600
ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag 660

```

attgtgtgat	gaaggacatg	atgtgaacat	ggaatcatca	aggaatgcac	actcaccagc	720
aacaccaagt	gcaaagagga	aggatccaga	tctaacttgg	ggtggctttg	tcttcttctt	780
ttgccaatc	cactaattgt	ttggggaaac	agtggcaata	aatttatctg	atgttgactt	840
gagtaaatat	atcaccacta	ttgctggagt	catgacacta	agtcaagtta	aaggctttgt	900
tcgaaagaat	ggtgtcaatg	aagccaaaat	agatgagatc	aagaatgaca	atgtccaaga	960
cacagcagaa	cagaaagttc	aactgcttcg	taattggcat	caacttcatg	gaaagaaaga	1020
agcgtatgac	acattgatta	aagatctcaa	aaaagccaat	ctttgtactc	ttgcagagaa	1080
aattcagact	atcatcctca	aggacattac	tagtgactca	gaaaattcaa	acttcagaaa	1140
tgaaatccaa	agcttggctt	agagtgaaaa	acaacaaatt	cagttctgag	tatatgcaat	1200
tagtgtttga	aaagattctt	aatagctggc	tgtaaatact	gcttggtttt	ttactgggta	1260
cattttatca	tttattagcg	ctgaagagcc	aacatatttg	tagattttta	atatctcatg	1320
attctgcctc	caaggatgtt	taaaatctag	ttgggaaaac	aaacttcatc	aagagtaaatt	1380
gcagtggcat	gctaagtacc	caaataggag	tgtatgcaga	ggatgaaaga	ttaagattat	1440
gctctggcat	ctaacatatg	attctgtagt	atgaatgtaa	tcagtgtatg	ttagtacaaa	1500
tgtctatcca	caggctaacc	ccactctatg	aatcaataga	agaagctatg	accttttgct	1560
gaaatatcag	ttactgaaca	ggcaggccac	tttgccctcta	aattacctct	gataattcta	1620
gagatttttac	catattttcta	aactttgttt	ataactctga	gaagatcata	tttatgtaaa	1680
gtatatgtat	ttgagtgcag	aatttaaata	aggctctacc	tcaaagacct	ttgcacagtt	1740
tatttggtgtc	atattataca	atatttcaat	tgtgaattca	catagaaaac	attaaattat	1800
aatgtttgac	tattatatat	gtgtatgcat	tttactggct	caaaactacc	tacttctttc	1860
tcaggcatca	aaagcatttt	gagcaggaga	gtattactag	agctttgcca	cctctccatt	1920
tttgccttgg	tgctcatctt	aatggcctaa	tgcaccccca	aacatggaaa	tatcaccaaa	1980
aaatacttaa	tagtccacca	aaaggcaaga	ctgcccttag	aaattctagc	ctggtttgga	2040
gatactaact	gctctcagag	aaagtagctt	tgtgacatgt	catgaacca	tgtttgcaat	2100
caaagatgat	aaaatagatt	cttattttttc	ccccaccccc	gaaaatgttc	aataatgtcc	2160
catgtaaaac	ctgctacaaa	tggcagctta	tacatagcaa	tggtaaaatc	atcatctgga	2220
tttaggaatt	gctcttgta	tacccccaa	tttctaagat	ttaagattct	ccttactact	2280
atcctacgtt	taaatatctt	tgaaagtttg	tattaaatgt	gaattttaag	aaataatatt	2340
tatattttctg	taaatgtaaa	ctgtgaagat	agttataaac	tgaagcagat	acctggaacc	2400
acctaaagaa	cttccattta	tggaggattt	ttttgcccct	tgtgtttgga	attataaaat	2460
ataggtaaaa	gtacgtaatt	aaataatgtt	tttggtaaaa	aaaaaaaaaa	aaaaaaaaaa	2520
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaa		2563

<210> 132

<211> 2445

<212> DNA

<213> NM_152876.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 6, mRNA

```

<400> 132
cctacccgcg cgcaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc      60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga     120
tctcgcgcaa gagtgcacac caggtgttca aagacgcttc tggggagtga ggggaagcgg      180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc     240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg gggttggtgga cccgctcagt     300
acggagttgg ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg     360
gaccctccta cctctgggtt ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc     420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga     480
gactcagaac ttggaaggcc tgcattcatga tggccaattc tgccataagc cctgtcctcc     540
agatgtgaac atggaatcat caaggaatgc acactcacca gcaacaccaa gtgcaaagag     600
gaagtgaaga gaaaggaagt acagaaaaca tgcagaaagc acagaaagga aaaccaagg      660
tctcatgaat ctccaacctt aaatcctgaa acagtggcaa taaatttatc tgatgttgac     720
ttgagtaaat atatcaccac tattgctgga gtcattgacac taagtcaagt taaaggcttt     780
gttcgaaaga atggtgtcaa tgaagccaaa atagatgaga tcaagaatga caatgtccaa     840
gacacagcag aacagaaagt tcaactgctt cgtaattggc atcaacttca tggaaagaaa     900
gaagcgtatg acacattgat taaagatctc aaaaaagcca atctttgtac tcttgagag      960
aaaattcaga ctatcatcct caaggacatt actagtgact cagaaaattc aaacttcaga    1020
aatgaaatcc aaagcttggc ctagagtga aaacaacaaa ttcagttctg agtatatgca    1080
attagtgttt gaaaagattc ttaatagctg gctgtaaata ctgcttggtt ttttactggg    1140
tacattttat catttattag cgctgaagag ccaacatatt ttagattttt taatatctca    1200
tgattctgcc tccaaggatg tttaaaatct agttgggaaa acaaacttca tcaagagtaa    1260
atgcagtggc atgctaagta cccaaatagg agtgatgca gaggatgaaa gattaagatt    1320
atgctctggc atctaacata tgattctgta gtatgaatgt aatcagtgtg tgtagtagta    1380
aatgtctatc cacaggctaa cccactcta tgaatcaata gaagaagcta tgaccttttg    1440
ctgaaatatc agttactgaa caggcaggcc actttgcctc taaattacct ctgataattc    1500
tagagatttt accatatttc taaactttgt ttataactct gagaagatca tatttatgta    1560
aagtatatgt atttgagtgc agaatttaaa taaggctcta cctcaaagac ctttgcacag    1620
tttattggtg tcatattata caatatttca attgtgaatt cacatagaaa acattaaatt    1680

```



```

ataatgtttg actattatat atgtgtatgc attttactgg ctcaaaacta cctacttctt 1740
tctcaggcat caaaagcatt ttgagcagga gagtattact agagctttgc cacctctcca 1800
tttttgcctt ggtgctcatc ttaatggcct aatgcacccc caaacatgga aatatcacca 1860
aaaaatactt aatagtccac caaaaggcaa gactgccctt agaaattcta gcctggtttg 1920
gagatactaa ctgctctcag agaaagtagc tttgtgacat gtcatagaacc catgtttgca 1980
atcaaagatg ataaaataga ttcttatttt tccccacccc ccgaaaatgt tcaataatgt 2040
cccatgtaaa acctgctaca aatggcagct tatacatagc aatggtaaaa tcatcatctg 2100
gatttaggaa ttgctcttgt catacccca agtttctaag atttaagatt ctccttacta 2160
ctatcctacg tttaaatatc tttgaaagtt tgtattaaat gtgaatttta agaaataata 2220
tttatatttc tgtaaatgta aactgtgaag atagttataa actgaagcag atacctggaa 2280
ccacctaaag aacttccatt tatggaggat tttttgccc cttgtgtttg gaattataaa 2340
atataggtaa aagtacgtaa ttaaataatg tttttggtaa aaaaaaaaaa aaaaaaaaaa 2400
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 2445

```

<210> 133

<211> 2508

<212> DNA

<213> NM_152877.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 7, mRNA

```

<400> 133
cctacccgcg cgaggccaa gttgctgaat caatggagcc ctccccaacc cgggcgttcc 60
ccagcgaggc ttccttccca tcctcctgac caccggggct ttcgtgagc tcgtctctga 120
tctcgcgcaa gagtgacaca caggtgttca aagacgcttc tggggagtga ggggaagcgg 180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt 300
acggagttgg ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg 360
gacctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga 480
gactcagaac ttggaaggcc tgcatacatg tggccaattc tgccataagc cctgtcctcc 540
agatgtgaac atggaatcat caaggaatgc acactcacca gcaacaccaa gtgcaaagag 600
gaaggatcca gatctaactt ggggtggcct tgtcttcttc ttttgccaat tccactaatt 660
gtttgggtga agagaaagga agtacagaaa acatgcagaa agcacagaaa ggaaaaccaa 720
ggttctcatg aatctccaac cttaaatacct gaaacagtgg caataaattt atctgatgtt 780
gacttgagta aatatatcac cactattgct ggagtcatga cactaagtca agttaaggc 840

```

```

tttgttcgaa agaatggtgt caatgaagcc aaaatagatg agatcaagaa tgacaatgtc    900
caagacacag cagaacagaa agttcaactg cttcgtaatt ggcacaaact tcatggaaag    960
aaagaagcgt atgacacatt gattaaagat ctcaaaaaag ccaatctttg tactctttgca  1020
gagaaaattc agactatcat cctcaaggac attactagtg actcagaaaa ttcaaacttc    1080
agaaatgaaa tccaaagctt ggtctagagt gaaaaacaac aaattcagtt ctgagtatat    1140
gcaatttagtg ttgaaaaga ttcttaatag ctggctgtaa atactgcttg gttttttact    1200
gggtacatth tatcatthtat tagcgtgaa gagccaacat atttgtagat ttttaatatc    1260
tcatgattct gcctccaagg atgtttaaaa tctagttggg aaaacaaact tcatcaagag    1320
taaatgcagt ggcacgctaa gtacccaaat aggagtgtat gcagaggatg aaagattaaag    1380
attatgctct ggcacgctaa gtacccaaat aggagtgtat gcagaggatg aaagattaaag    1440
acaaatgtct atccacaggc taacccact ctatgaatca atagaagaag ctatgacctt    1500
ttgctgaaat atcagttact gaacaggcag gccactttgc ctctaaatta cctctgataa    1560
ttctagagat ttaccatat ttctaaactt tgtttataac tctgagaaga tcataatttat    1620
gtaaagtata tgtatttgag tgcagaatth aaataaggct ctacctcaa gacctttgca    1680
cagtttattg gtgtcatatt atacaatatt tcaatttgta attcacatag aaaacattaa    1740
attataatgt ttgactatta tatatgtgta tgcattttac tggctcaaaa ctacctactt    1800
ctttctcagg catcaaaagc attttgagca ggagagtatt actagagctt tgccacctct    1860
ccatthttgc ctgggtgctc atcttaatgg cctaatgcac ccccaaact ggaaatattca    1920
ccaaaaataa cttaatagtc caccaaaagg caagactgcc cttagaaatt ctagcctggg    1980
ttggagatac taactgctct cagagaaagt agcttttgta catgtcatga acccatgttt    2040
gcaatcaaag atgataaaat agattcttat ttttcccca ccccgaata tgttcaataa    2100
tgtcccatgt aaaacctgct acaaatggca gcttatacat agcaatggta aaatcatcat    2160
ctggatttag gaattgctct tgtcataccc ccaagtttct aagatttaag attctcctta    2220
ctactatcct acgtttaaat atctttgaaa gtttgattta aatgtgaatt ttaagaaata    2280
atatttatat ttctgtaaat gtaaactgtg aagatagtta taaactgaag cagatacctg    2340
gaaccaccta aagaacttcc atttatggag gatttttttg ccccttggtt ttggaattat    2400
aaaatatagg taaaagtacg taattaaata atgttttttg taaaaaaaaa aaaaaaaaaa    2460
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa    2508

```

<210> 134

<211> 2583

<212> DNA

<213> NM_152875.1| Homo sapiens tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 5, mRNA

<400> 134
cctacccgcg cgcaggccaa gttgctgaat caatggagcc ctccc caacc cgggcgttcc 60
ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga 120
tctcgcgcaa gagtgcacac caggtgttca aagacgcttc tggggagtgga gggaagcggc 180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt 300
acggagttgg ggaagctctt tcacttcgga ggattgctca acaaccatgc tgggcatctg 360
gacctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga 480
gactcagaac ttggaaggcc tgcatacatga tggccaattc tgccataagc cctgtcctcc 540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccctg 600
ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag 660
attgtgtgat gaaggacatg atgtgaacat ggaatcatca aggaatgcac actcaccagc 720
aacaccaagt gcaaagagga agtgaagaga aaggaagtac agaaaacatg cagaaagcac 780
agaaaggaaa accaaggttc tcatgaatct ccaaccttaa atcctgaaac agtggcaata 840
aat ttatctg atgttgactt gagtaaatat atcaccacta ttgctggagt catgacacta 900
agtcaagtta aaggctttgt tcgaaagaat ggtgtcaatg aagccaaaat agatgagatc 960
aagaatgaca atgtccaaga cacagcagaa cagaaaagttc aactgcttcg taattggcat 1020
caacttcatg gaaagaaaga agcgtatgac acattgatta aagatctcaa aaaagccaat 1080
ctttgtactc ttgcagagaa aattcagact atcatcctca aggacattac tagtgactca 1140
gaaaattcaa acttcagaaa tgaaatccaa agcttgggtc agagtgaaaa acaacaaatt 1200
cagttctgag tatatgcaat tagtgtttga aaagattctt aatagctggc tgtaaatact 1260
gcttggtttt ttactgggta cattttatca tttattagcg ctgaagagcc aacatatttg 1320
tagattttta atatctcatg attctgcctc caaggatgtt taaaa tctag ttgggaaaac 1380
aaacttcatc aagagtaaat gcagtggcat gctaagtacc caaataggag tgtatgcaga 1440
ggatgaaaga ttaagattat gctctggcat ctaacatatg attctgtagt atgaatgtaa 1500
tcagtgtatg ttagtacaaa tgtctatcca caggctaacc ccactctatg aatcaataga 1560
agaagctatg accttttgct gaaatatcag ttactgaaca ggcaggccac tttgcctcta 1620
aattacctct gataattcta gagattttac catatttcta aactttgttt ataactctga 1680
gaagatcata tttatgtaaa gtatatgtat ttgagtgcag aatttaata aggctctacc 1740
tcaaagacct ttgcacagtt tattgggtgc atattatata atatttcaat tgtgaattca 1800
catagaaaac attaaattat aatgtttgac tattatatat gtgtatgcat tttactggct 1860
caaaactacc tacttctttc tcaggcatca aaagcatttt gagcaggaga gtattactag 1920

```

agctttgccca cctctccatt tttgccttgg tgctcatctt aatggcctaa tgcaccccca 1980
aacatggaaa tatcaccaaa aaatacttaa tagtccacca aaaggcaaga ctgcccttag 2040
aaattctagc ctggtttgga gatactaact gctctcagag aaagtagctt tgtgacatgt 2100
catgaacca tgtttgcaat caaagatgat aaaatagatt cttatttttc cccaccccc 2160
gaaaatgttc aataatgtcc catgtaaaac ctgctacaaa tggcagctta tacatagcaa 2220
tggtaaaatc atcatctgga tttaggaatt gctcttgta taccaccaag tttctaagat 2280
ttaagattct cttactact atcctacgtt taaatatctt tgaaagtttg tattaaatgt 2340
gaattttaag aaataatatt tatatttctg taaatgtaaa ctgtgaagat agttataaac 2400
tgaagcagat acctggaacc acctaaagaa cttccattta tggaggattt ttttgcccct 2460
tgtgtttgga attataaaat ataggtaaaa gtacgtaatt aaataatgtt tttggtaaaa 2520
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580
aaa 2583

```

<210> 135

<211> 316

<212> DNA

<213> >gi|13310411|gb|AF333388.1|AF333388 Homo sapiens metallothionein 1H-like protein mRNA, complete cds

```

<400> 135
cctcttctct tctcgcttgg gaacgccggt ctacacctcg cttgcaatgg accccaactg 60
ctcctgcgcc gctggaggct cctacgcctg cgccggctcc tgcaagtgca aaaagtgcaa 120
atgcacctcc tgcaagaaga gctgctgctc ctgttgcccc ctgggctgtg ccaagtgtgc 180
ccagggtgct atccgcaaag gggcttcgga aaagtgcagc tgctgtgcct gatgtcggga 240
ctgccctgct ctcggatgaa aacagaatga cacgtaaagt ccgggatttt tttttctaca 300
actccgactc atttgc 316

```

<210> 136

<211> 3145

<212> DNA

<213> NM_000251. Homo sapiens muts...[gi:4557760]

```

<400> 136
ggcgggaaac agcttagtggt gtgtgggggtc gcgcattttc ttcaaccagg aggtgaggag 60
gtttcgacat ggcggtgcag ccgaaggaga cgctgcagtt ggagagcgcg gccgaggctc 120
gcttcgtgct cttctttcag ggcattgccg agaagccgac caccacagtg cgccttttcg 180

```

accggggcga	cttctatacg	gcgcacggcg	aggacgcgct	gctggccgcc	cgggaggtgt	240
tcaagacca	gggggtgatc	aagtacatgg	ggccggcagg	agcaaagaat	ctgcagagtg	300
ttgtgcttag	taaaatgaat	tttgaatctt	ttgtaaaaga	tcttcttctg	gttcgtcagt	360
atagagttga	agttttataag	aatagagctg	gaaataaggc	atccaaggag	aatgattggt	420
atttggcata	taaggcttct	cctggcaatc	tctctcagtt	tgaagacatt	ctctttggta	480
acaatgatat	gtcagcttcc	attggtgttg	tgggtgttaa	aatgtccgca	gttgatggcc	540
agagacaggt	tggagttggg	tatgtggatt	ccatacagag	gaaactagga	ctgtgtgaat	600
tccctgataa	tgatcagttc	tccaatcttg	aggctctcct	catccagatt	ggaccaaagg	660
aatgtgtttt	acccggagga	gagactgctg	gagacatggg	gaaactgaga	cagataattc	720
aaagaggagg	aattctgatc	acagaaagaa	aaaaagctga	cttttccaca	aaagacattt	780
atcaggacct	caaccggttg	ttgaaaggca	aaaagggaga	gcagatgaat	agtgtctgtat	840
tgccagaaat	ggagaatcag	gttgcagttt	catcactgtc	tgcggtaatc	aagtttttag	900
aactcttatc	agatgattcc	aactttggac	agtttgaact	gactactttt	gacttcagcc	960
agtatatgaa	attggatatt	gcagcagtc	gagcccttaa	cctttttcag	ggttctgttg	1020
aagataccac	tggctctcag	tctctggctg	ccttgctgaa	taagtgtaaa	accctcaag	1080
gacaaagact	tgtaaacag	tggattaagc	agcctctcat	ggataagaac	agaatagagg	1140
agagattgaa	tttagtgga	gcttttgtag	aagatgcaga	attgaggcag	actttacaag	1200
aagatttact	tcgtcgattc	ccagatctta	accgacttgc	caagaagttt	caaagacaag	1260
cagcaaaactt	acaagattgt	taccgactct	atcagggtat	aaatcaacta	cctaattgta	1320
tacaggctct	ggaaaaacat	gaaggaaaac	accagaaatt	attgttggca	gtttttgtga	1380
ctcctcttac	tgatcttcgt	tctgacttct	ccaagtttca	ggaaatgata	gaaacaactt	1440
tagatatgga	tcagggtgga	aaccatgaat	tccttgtaaa	accttcattt	gatcctaata	1500
tcagtgaatt	aagagaaata	atgaatgact	tggaaaagaa	gatgcagtca	acattaataa	1560
gtgcagccag	agatcttggc	ttggaccctg	gcaaacagat	taaactggat	tccagtgcac	1620
agtttgata	ttactttcgt	gtaacctgta	aggaagaaaa	agtccttcgt	aacaataaaa	1680
acttttagtac	tgtagatata	cagaagaatg	gtgttaaatt	taccaacagc	aaattgactt	1740
ctttaaatga	agagtatacc	aaaaataaaa	cagaatatga	agaagcccag	gatgccattg	1800
ttaaagaaat	tgtcaatatt	tcttcaggct	atgtagaac	aatgcagaca	ctcaatgatg	1860
tgtagctca	gctagatgct	gttgtcagct	ttgctcacgt	gtcaaattgga	gcacctgttc	1920
catatgtacg	accagccatt	ttggagaaa	gacaaggaa	aattatatta	aaagcatcca	1980
ggcatgcttg	tgttgaagtt	caagatgaaa	ttgcatttat	tcctaataac	gtatactttg	2040
aaaaagataa	acagatgttc	cacatcatta	ctggcccca	tatgggaggt	aaatcaacat	2100
atattcgaca	aactggggtg	atagtactca	tggcccaaat	tgggtgtttt	gtgccatgtg	2160
agtcagcaga	agtggtccatt	gtggactgca	tcttagccc	agtaggggct	ggtgacagtc	2220

```

aattgaaagg agtctccacg ttcattggctg aaatgtttgga aactgcttct atcctcaggt 2280
ctgcaaccaa agattcatta ataatcatag atgaattggg aagaggaact tctacctacg 2340
atggatttgg gttagcatgg gctatatcag aatacattgc aacaaagatt ggtgcttttt 2400
gcatgtttgc aaccattttt catgaactta ctgccttggc caatcagata ccaactgtta 2460
ataatctaca tgtcacagca ctccacttg aagagacctt aactatgctt tatcagggtga 2520
agaaagggtg ctgtgatcaa agtttttggga ttcattgttg agagcttgct aatttcctta 2580
agcatgtaat agagtgtgct aaacagaaaag ccctggaact tgaggagttt cagtatatgt 2640
gagaatcgca aggatatgat atcatggaac cagcagcaaa gaagtgtctat ctggaaagag 2700
agcaagggtga aaaaattatt caggagttcc tgtccaagggt gaaacaaatg ccctttactg 2760
aaatgtcaga agaaaacatc acaataaaagt taaaacagct aaaagctgaa gtaatagcaa 2820
agaataatag ctttgtaa at gaaatcattt cacgaataaa agttactacg tgaaaaatcc 2880
cagtaatgga atgaaggtaa tattgataag ctattgtctg taatagtttt atattgtttt 2940
atattaaccc tttttccata gtgttaactg tcagtgccca tgggctatca acttaataag 3000
atatttagta atattttact ttgaggacat tttcaaagat ttttattttg aaaaatgaga 3060
gctgtaactg aggactgttt gcaattgaca taggcaataa taagtgatgt gctgaatttt 3120
ataaataaaa tcatgtagtt tgtggg 3145

```

<210> 137

<211> 3239

<212> DNA

<213> NM_000534. Homo sapiens PMS1...[gi:53729349]

<400> 137

```

ctcgtgccca gcggattggc tgcgagcagc gccaatctca cgttgccccc gggcgaggcg 60
ggactcagtg ccgcgctctc tgcaaccgct ctgccgcgcg cgtgcgtgct ggggtgcgggt 120
gcgggtgcgg ggttgggcct gcgcatcggg tgagacgctg gctgcttgcg gctagtggat 180
ggtaattgcc tgcctcgcgc tagcaggaag ctgctctgtt aaaagcgaaa atgaaacaat 240
tgcctgcggc aacagttcga ctcttttcaa gttctcagat catcacttcg gtggtcagtg 300
ttgtaaaaga gcttattgaa aactccttgg atgctggtgc cacaagcgta gatgttaaac 360
tgagaaacta tggatttgat aaaattgagg tgcgagataa cggggagggt atcaaggctg 420
ttgatgcacc tgtaatggca atgaagtact acacctcaa aataaatagt catgaagatc 480
ttgaaaattt gacaacttac ggtttttcgtg gagaagcctt ggggtcaatt tgttgatatag 540
ctgagggtttt aattacaaca agaacggctg ctgataattt tagcaccag tatgttttag 600
atggcagtggt ccacatactt tctcagaaac cttcacatct tgggtcaagggt acaactgtaa 660

```

ctgctttaag	attattttaag	aatctacctg	taagaaagca	gttttactca	actgcaaaaa	720
aatgtaaaga	tgaaataaaa	aagatccaag	atctcctcat	gagctttggt	atccttaaac	780
ctgacttaag	gattgtcttt	gtacataaca	aggcagttat	ttggcagaaa	agcagagtat	840
cagatcacaa	gatggctctc	atgtcagttc	tggggactgc	tgttatgaac	aatatggaat	900
cctttcagta	ccactctgaa	gaatctcaga	tttatctcag	tggatttctt	ccaaagtgtg	960
atgcagacca	ctctttcact	agtctttcaa	caccagaaag	aagtttcatc	ttcataaaca	1020
gtcgaccagt	acatcaaaaa	gatatcttaa	agttaatccg	acatcattac	aatctgaaat	1080
gcctaaagga	atctactcgt	ttgtatcctg	ttttctttct	gaaaatcgat	gttcctacag	1140
ctgatgttga	tgtaaattta	acaccagata	aaagccaagt	attattacaa	aataaggaat	1200
ctgttttaat	tgctcttgaa	aatctgatga	cgacttggtt	tggaccatta	cctagtacaa	1260
attcttatga	aaataataaa	acagatgttt	ccgcagctga	catcgttctt	agtaaaacag	1320
cagaaacaga	tgtgcttttt	aataaagtgg	aatcatctgg	aaagaattat	tcaaagtgtg	1380
atacttcagt	cattccattc	caaaatgata	tgcataatga	tgaatctgga	aaaaacactg	1440
atgattgttt	aatcaccag	ataagtatctg	gtgactttgg	ttatgggtcat	tgtagtagtg	1500
aaatttctaa	cattgataaa	aacactaaga	atgcatttca	ggacatttca	atgagtaatg	1560
tatcatggga	gaactctcag	acggaatata	gtaaaacttg	ttttataagt	tccgttaagc	1620
acaccagtc	agaaaatggc	aataaagacc	atatagatga	gagtggggaa	aatgaggaag	1680
aagcaggtct	tgaaaactct	tccgaaattt	ctgcagatga	gtggagcagg	ggaaatatac	1740
ttaaaaattc	agtgggagag	aatattgaac	ctgtgaaaat	tttagtgcct	gaaaaaagtt	1800
taccatgtaa	agtaagtaat	aataattatc	caatccctga	acaaatgaat	cttaatgaag	1860
attcatgtaa	caaaaaatca	aatgtaattag	ataataaatc	tggaaaagtt	acagcttatg	1920
atttacttag	caatcgagta	atcaagaaac	ccatgtcagc	aagtgtctctt	tttgttcaag	1980
atcatcgtcc	tcagtttctc	atagaaaaatc	ctaagactag	tttagaggat	gcaacactac	2040
aaattgaaga	actgtggaag	acattgagtg	aagaggaaaa	actgaaatat	gaagagaagg	2100
ctactaaaga	cttggaacga	tacaatagtc	aatgaagag	agccattgaa	caggagtcac	2160
aaatgtcact	aaaagatggc	agaaaaaaga	taaaaccac	cagcgcatgg	aatttggtccc	2220
agaagcacaa	gttaaaaacc	tcattatcta	atcaaccaa	acttgatgaa	ctccttcagt	2280
cccaaattga	aaaaagaagg	agtcaaaaata	ttaaaatggt	acagatcccc	ttttctatga	2340
aaaacttaaa	aataaatttt	aagaaacaaa	acaaagttga	cttagaagag	aaggatgaac	2400
cttgcttgat	ccacaatctc	aggtttctctg	atgcatggct	aatgacatcc	aaaacagagg	2460
taatgttatt	aaatccatat	agagtagaag	aagccctgct	atttaaaaga	cttcttgaga	2520
atcataaact	tcctgcagag	ccactggaaa	agccaattat	gttaacagag	agtcttttta	2580
atggatctca	ttatttagac	gttttatata	aatgacagc	agatgaccaa	agatacagtg	2640
gatcaactta	cctgtctgat	cctcgtctta	cagcgaatgg	tttcaagata	aaattgatac	2700

```

caggagtttc aattactgaa aattacttgg aaatagaagg aatggctaata tgtctcccat 2760
tctatggagt agcagatttta aaagaaattc ttaatgctat attaaacaga aatgcaaagg 2820
aagtttatga atgtagacct cgcaaagtga taagttatatt agagggagaa gcagtgcgtc 2880
tatccagaca attacccatg tacttatcaa aagaggacat ccaagacatt atctacagaa 2940
tgaagcacca gtttggaat gaaattaaag agtgtgttca tggtcgcca ttttttcattc 3000
atttaaccta tcttcagaa actacatgat taaatatgtt taagaagatt agttaccatt 3060
gaaattgggt ctgtcataaa acagcatgag tctggtttta aattatcttt gtattatgtg 3120
tcacatgggt attttttaaa tgaggattca ctgacttggt tttatattga aaaaagttcc 3180
acgtattgta gaaaacgtaa ataaactaat atagactatt caaaaaaaaaa aaaaaaaaaa 3239

```

<210> 138

<211> 2771

<212> DNA

<213> NM_000535. Homo sapiens PMS2...[gi:11125773]

```

<400> 138
cgaggcggat cgggtgttgc atccatggag cgagctgaga gctcgagtac agaacctgct 60
aaggccatca aacctattga tcggaagtca gtccatcaga tttgctctgg gcagggtgga 120
ctgagtctaa gcactgcggt aaaggagtta gtagaaaaca gtctggatgc tggtgccact 180
aatattgatc taaagcttaa ggactatgga gtggatctta ttgaagtttc agacaatgga 240
tgtggggtag aagaagaaaa cttcgaaggc ttaactctga aacatcacac atctaagatt 300
caagagtttg ccgacctaac tcaggttgaa acttttggct ttcgggggga agctctgagc 360
tcactttgtg cactgagcga tgtcaccatt tctacctgcc acgcatcggc gaaggttgga 420
actcgactga tgtttgatca caatgggaaa attatccaga aaaccccta cccccgccc 480
agagggacca cagtcagcgt gcagcagtta ttttccacac tacctgtgcg ccataaggaa 540
tttcaaagga atattaagaa ggagtatgcc aaaatggtcc aggtcttaca tgcatactgt 600
atcatttcag caggcatccg tgtaagttgc accaatcagc ttggacaagg aaaacgacag 660
cctgtggtat gcacagggtg aagccccagc ataaaggaaa atatcggctc tgtgtttggg 720
cagaagcagt tgcaaagcct cattcctttt gttcagctgc cccctagtga ctccgtgtgt 780
gaagagtacg gtttgagctg ttcggatgct ctgcataatc ttttttacat ctgaggtttc 840
atttcacaat gcacgcatgg agttggaagg agttcaacag acagacagtt tttctttatc 900
aaccggcggc cttgtgacct agcaaaggct tgcagactcg tgaatgaggt ctaccacatg 960
tataatcgac accagtatcc atttgttggt cttaacattt ctgttgattc agaatgcgtt 1020
gatatcaatg ttactccaga taaaaggcaa attttgctac aagaggaaaa gcttttggtg 1080

```



```

gcagtttttaa agacctcttt gataggaatg tttgatagtg atgtcaacaa gctaaatgtc 1140
agtcagcagc cactgctgga tgttgaagggt aacttaataa aaatgcatgc agcggatttg 1200
gaaaagccca tggtagaaaa gcaggatcaa tccccttcat taaggactgg agaagaaaaa 1260
aaagacgtgt ccatttccag actgcgagag gccttttctc ttcgtcacac aacagagaac 1320
aagcctcaca gccc aaagac tccagaacca agaaggagcc ctctaggaca gaaaaggggt 1380
atgctgtctt ctagcacttc aggtgccatc tctgacaaag gcgtcctgag acctcagaaa 1440
gaggcagtga gttccagtca cggacccagt gaccctacgg acagagcggg ggtggagaag 1500
gactcggggc acggcagcac ttccgtggat tctgaggggt tcagcatccc agacacgggc 1560
agtcactgca gcagcgagta tgcggccagc tcccaggggg acaggggctc gcaggaacat 1620
gtggactctc aggagaaagc gcctgaaact gacgactctt tttcagatgt ggactgccat 1680
tcaaaccagg aagataccgg atgtaaatth cgagttttgc ctacagccaac taatctcgca 1740
accccaaaca caaagcgttt taaaaaagaa gaaattcttt ccagttctga catttgtcaa 1800
aagttagtaa atactcagga catgtcagcc tctcaggttg atgtagctgt gaaaattaat 1860
aagaaagttg tgcccctgga cttttctatg agttctttag ctaaacgaat aaagcagtta 1920
catcatgaag cacagcaaag tgaaggggaa cagaattaca ggaagtttag ggcaaagatt 1980
tgtcctggag aaaatcaagc agccgaagat gaactaagaa aagagataag taaaacgatg 2040
tttgcagaaa tggaaatcat tggtcagttt aacctgggat ttataataac caaactgaat 2100
gaggatatct tcatagtgga ccagcatgcc acggacgaga agtataactt cgagatgctg 2160
cagcagcaca ccgtgctcca ggggcagagg ctcatagcac ctacagactct caacttaact 2220
gctgttaatg aagctgttct gatagaaaat ctggaaatat ttagaaagaa tggctttgat 2280
tttgttatcg atgaaaatgc tccagtcact gaaagggcta aactgatttc cttgccaaact 2340
agtaaaaact ggaccttcgg accccaggac gtcgatgaac tgatcttcat gctgagcgac 2400
agccctgggg tcatgtgccg gccttcccga gtcaagcaga tgtttgcctc cagagcctgc 2460
cggaagtcgg tgatgattgg gactgctctt aacacaagcg agatgaagaa actgatcacc 2520
cacatggggg agatggacca cccctggaac tgtcccatg gaaggccaac catgagacac 2580
atcgccaacc tgggtgtcat ttctcagaac tgaccgtagt cactgtatgg aataattggg 2640
tttatcgagc atttttatgt tttgaaagac agagtcttca ctaacctttt ttgttttaaa 2700
atgaaacctg ctacttaaaa aaaatacaca tcacacccat ttaaaagtga tcttgagaac 2760
cttttcaaac c 2771

```

<210> 139

<211> 4264

<212> DNA

<213> NM_000179. Homo sapiens mutS...[gi:4504190]

<400> 139
atttccccgcc agcaggagcc gcgcggtaga tgcggtgctt ttaggagctc cgtccgacag 60
aacgggttggg ccttgccggc tgtcggtatg tcgcgacaga gcaccctgta cagcttcttc 120
cccaagtctc cggcgctgag tgatgccaac aaggcctcgg ccagggcctc acgcgaaggc 180
ggccgtgccg ccgctgcccc cggggcctct ccttccccag gcggggatgc ggcctggagc 240
gaggctgggc ctggggccag gcccttggcg cgatccgcgt caccgcccaa ggcgaagaac 300
ctcaacggag ggctgcggag atcggtagcg cctgctgccc ccaccagttg tgactttctca 360
ccaggagatt tggtttgggc caagatggag ggttaccctt ggtggccttg tctggtttac 420
aaccacccct ttgatggaac attcatccgc gagaaaggga aatcagtccg tgttcatgta 480
cagttttttg atgacagccc aacaaggggc tgggttagca aaaggctttt aaagccatat 540
acaggttcaa aatcaaagga agcccagaag ggaggtcatt ttacagtgc aaagcctgaa 600
atactgagag caatgcaacg tgcagatgaa gccttaaata aagacaagat taagaggctt 660
gaattggcag tttgtgatga gccctcagag ccagaagagg aagaagagat ggaggtaggc 720
acaacttacg taacagataa gagtgaagaa gataatgaaa ttgagagtga agaggaagta 780
cagcctaaga cacaaggatc taggcgaagt agccgccaaa taaaaaacg aagggtcata 840
tcagattctg agagtacat tgggtggctct gatgtggaat ttaagccaga cactaaggag 900
gaaggaagca gtgatgaaat aagcagtgga gtgggggata gtgagagtga aggcctgaac 960
agccctgtca aagttgctcg aaagcggaag agaattggtga ctggaaatgg ctctcttaaa 1020
aggaaaagct ctaggaagga aacgccctca gccaccaaac aagcaactag catttcatca 1080
gaaaccaaga atacttttag agctttctct gccctcaaaa attctgaatc ccaagcccac 1140
gttagtgagg gtggtgatga cagtagtcgc cctactgttt ggtatcatga aacttttagaa 1200
tggcttaagg aggaaaagag aagagatgag cacaggagga ggcctgatca ccccgatttt 1260
gatgcatcta cactctatgt gcctgaggat ttcctcaatt cttgtactcc tgggatgagg 1320
aagtgggtggc agattaagtc tcagaacttt gatcttgtca tctgttaca ggtggggaaa 1380
ttttatgagc tgtaccacat ggatgctctt attggagtca gtgaactggg gctggtattc 1440
atgaaaggca actgggcccc ttctggcttt cctgaaattg catttggccg ttattcagat 1500
tccctggtgc agaagggcta taaagtagca cgagtggaa agactgagac tccagaaatg 1560
atggaggcac gatgtagaaa gatggcacat atatccaagt atgatagagt ggtgaggagg 1620
gagatctgta ggatcattac caagggtaca cagacttaca gtgtgctgga aggtgatccc 1680
tctgagaact acagtaagta tcttcttagc ctcaaagaaa aagaggaaga ttcttctggc 1740
catactcgtg catatggtgt gtgctttgtt gatacttcac tgggaaagt tttcataggt 1800
cagttttcag atgatcgcca ttgttcgaga tttaggactc tagtggcaca ctatcccca 1860
gtacaagttt tatttgaaaa aggaaatctc tcaaaggaaa ctaaaacaat tctaaagagt 1920

tcattgtcct	gttctcttca	ggaaggtctg	atacccggt	cccagttttg	ggatgcatcc	1980
aaaactttga	gaactctcct	tgaggaagaa	tatttttaggg	aaaagctaag	tgatggcatt	2040
ggggtgatgt	taccccaggt	gcttaaaggt	atgacttcag	agtctgattc	cattggggtg	2100
acaccaggag	agaaaagtga	attggccctc	tctgctctag	gtggttgtgt	cttctacctc	2160
aaaaaatgcc	ttattgatca	ggagctttta	tcaatggcta	attttgaaga	atatattccc	2220
ttggattctg	acacagtcag	cactacaaga	tctgggtgcta	tcttcaccaa	agcctatcaa	2280
cgaatgggtgc	tagatgcagt	gacattaaac	aacttggaga	tttttctgaa	tggaacaaat	2340
ggttctactg	aaggaaccct	actagagagg	gttgatactt	gccatactcc	ttttggtaag	2400
cggctcctaa	agcaatgggt	ttgtgcccc	ctctgtaacc	attatgctat	taatgatcgt	2460
ctagatgcca	tagaagacct	catggttgtg	cctgacaaaa	tctccgaagt	tgtagagctt	2520
ctaaagaagc	ttccagatct	tgagaggcta	ctcagtaaaa	ttcataatgt	tggggtctccc	2580
ctgaagagtc	agaaccaccc	agacagcagg	gctataatgt	atgaagaaac	tacatacagc	2640
aagaagaaga	ttattgattt	tctttctgct	ctggaaggat	tcaaagtaat	gtgtaaaatt	2700
atagggatca	tggaagaagt	tgctgatgg	tttaagtcta	aatccttaa	gcaggtcatc	2760
tctctgcaga	caaaaaatcc	tgaaggctgt	tttcctgatt	tgactgtaga	attgaaccga	2820
tgggatacag	cctttgacca	tgaaaaggct	cgaaagactg	gacttattac	tcccaaagca	2880
ggctttgact	ctgattatga	ccaagctctt	gctgacataa	gagaaaatga	acagagcctc	2940
ctggaatacc	tagagaaaca	gcgcaacaga	attggctgta	ggaccatagt	ctattggggg	3000
attggtagga	accgttacca	gctggaaatt	cctgagaatt	tcaccactcg	caatttgcca	3060
gaagaatacg	agttgaaatc	taccaagaag	ggctgtaaac	gatactggac	caaaactatt	3120
gaaaagaagt	tggtctaatct	cataaatgct	gaagaacgga	gggatgtatc	attgaaggac	3180
tgcatgcggc	gactgttcta	taactttgat	aaaaattaca	aggactggca	gtctgctgta	3240
gagtgtatcg	cagtgttgga	tgttttactg	tgcttggtg	actatagtcg	aggggggtgat	3300
ggtcctatgt	gtcgcccagt	aattctgttg	ccggaagata	ccccccctt	cttagagctt	3360
aaaggatcac	gccatccttg	cattacgaag	actttttttg	gagatgattt	tattccta	3420
gacattctaa	taggctgtga	ggaagaggag	caggaaaatg	gcaaagccta	ttgtgtgctt	3480
gttactggac	caaataatggg	gggcaagtct	acgcttatga	gacaggctgg	cttattagct	3540
gtaatggccc	agatggggtg	ttacgtccct	gctgaagtgt	gcaggctcac	accaattgat	3600
agagtgttta	ctagacttgg	tgcttcagac	agaataatgt	cagggtgaaag	tacatttttt	3660
gttgaattaa	gtgaaactgc	cagcatactc	atgcatgcaa	cagcacattc	tctgggtgctt	3720
gtggatgaat	taggaagagg	tactgcaaca	tttgatggga	cggcaatagc	aaatgcagtt	3780
gttaaagaac	ttgctgagac	tataaaatgt	cgtacattat	tttcaactca	ctaccattca	3840
ttagtagaag	attattctca	aaatgttgct	gtgcgcctag	gacatatggc	atgcatggta	3900
gaaaatgaat	gtgaagaccc	cagccaggag	actattacgt	tcctctataa	attcattaag	3960

ggagcttgtc	ctaaaagcta	tggctttaat	gcagcaaggc	ttgctaattct	cccagaggaa	4020
gttattcaaa	agggacatag	aaaagcaaga	gaatttgaga	agatgaatca	gtcactacga	4080
ttatttcggg	aagtttgcct	ggctagtga	aggtcaactg	tagatgctga	agctgtccat	4140
aaattgctga	ctttgattaa	ggaattatag	actgactaca	ttggaagctt	tgagttgact	4200
tctgaccaa	ggtggtaa	tcagacaaca	ttatgatcta	ataaacttta	ttttttaaaa	4260
atga						4264